# FINANCIALTIMES

Westland's flight from fantasy to fiasco, Page 14

No. 29,991

Monday July 28 1986

D 8523 B

### New Delhi Wrangler police hold group in 800 after \$800m rioting takeover

Police arrested 800 in New Delhi and a tenth of the Indian capital plans manufacturer with its Wrangwas put under curiew after clashes ler brand, is to be acquired by VF between Hindus and Sikhs in which eight people were killed and 60

The riots were sparked off by the killing, last week, of 14 bus passengers, all Hindus except one, by Sikh extremists campaigning for a sepa-

Troops were sent into the eastern Indian town of Kalimpong to en-force a curfew imposed after police shot dead five Gurkhas and wounded several others in riots over a campaign for autonomy.

### **Bush in Middle East**

US Vice-President George Bush arrived in Israel to begin a three nation Middle East tour which has taken on new political significance because of Israeli Prime Minister Shimon Peres' landmark summit in Morocco. Page 2

Hostage released

American priest Lawrence Jenco arrived at the US Rhein-Main airbase in West Germany after being held hostage in Lebanon for 18 months by the Islamic Jihad.

### Anti-Aquino killing

Followers of ousted leader of the Philippines, Ferdinand Marcos, killed a supporter of President Corazon Aquino during an anti-government rally in central Manila

### Thai poli murders

Five murders, scattered shelling and charges of vote-buying marred otherwise peaceful elections in Bangkok aimed at building a new coalition for Thailand's Prime Min-

### Chairman sought

King Hassan of Morocco has resigned as chairman of Arab summits because of criticism over his meeting with Israeli Prime Minister Shimon Peres. Page 2

### Landslide death toll

The death toll in a landslide that destroyed two houses in the southern TOKYO shares on Saturday experi-Italian village of Senise rose to eight when rescue workers found the body of a nine-year-old girl.

### Iragi air raid

Iran reported an Iraqi air raid on the industrial city of Arak, 150 miles (240km) southwest of Tehran, and said several people had been

### Ten die in rail crash

Ten people died after a collision be-tween a train and a van at a road crossing in Humberside, north-east England.

### Trawler drugs haul

of La Corona arrested nine people and seized 158lb (71.8kg) of cocaine with a street value of \$15m aboard a Colombian trawler bound for the

### Wheat export plea

Australian Primary Industry Minister John Kerin will lead a delegation to the US this week to try to persuade the Government to reverse a decision to extend subsidised wheat exports to China and the Soviet Union, both important markets for Australian wheat.

### **Lemond wins Tour**

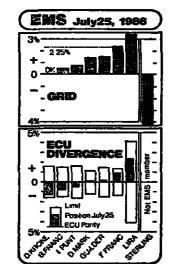
Greg Lemond became the first American to win the three-week Tour de France cycle classic, beat-ing five-times-winner Bernard Hinault (France) by three minutes 10

Piquet's grand prix Brazilian Nelson Piquet won the West German grand prix at Hockenheim. Ayrton Senna (Brazil) was second and Nigel Mansell (Britain) third.

Corporation. a fast-expanding Pennsylvania textiles group, in a deal worth more than \$800m. The takeover will produce the country's biggest clothing concern.

SONATRACH, the Algerian state oil and gas corporation, is under pressure to change the way it calculates natural gas prices in the face of falling oil prices. Page 3.

EUROPEAN MONETARY SYS-TEM: The Danish krone was weaker in the EMS last week but remained within its divergence limit. There was no real pressure on the weaker currencies although a continued rise in the value of the West



German D-Mark against the dollar could pose problems for the weaker members. The Italian lira was again the strongest currency, unaf-fected by problems resulting from the recent fall of the ruling Govern-

The chart shows the two constraints on European Monetary System ex-change rates. The upper grid, based on the weakest currency in the sys-tem, defines the cross rates from which no currency (except the lira) may more more than 2% per cent. The lower chart gives each currency's divergence from its "central rate" against the European Curren-cy Unit (ECU), itself a basket of Eu-

enced their first fall for five sessions as investors took profits. The Nikkei market average closed 52.30 lower at 17,998.29.

ASSETS of foreign banks in Japan declined in the year to March 31, reflecting the difficulties involved in breaking into Japanese lending markets. Page 16.

BRITAIN is spending less on scien-

tific research per person than the US, Japan, West Germany, France or the Netherlands, says a UK government report. Page 4. BIG FOUR clearing banks in Brit-

ain - Barclays, NatWest, Midland and Lloyds - are expected to show an increase in total first-half profits Spanish police in the northern port of 20 to 25 per cent, according to City of London bank stock analysts.

BRITAIN'S MOTOR industry's balance of trade deficit deteriorated further in the first quarter of this year with the deficit growing by 36.2 per cent to nearly Elbn (Sl.4m).

NORMED, the French shipbuilding concern recently forced to file for bankruptcy after the right-wing government withdrew French shipyard subsidies, has been of interest to several Middle East investors.

TEXAS INSTRUMENTS, the largest US seminconductor manufacturer has returned to profitability in the second quarter for the first time since the first quarter of 1985 with net income of 512.3m compared with a loss of \$3.9m in the same quarter last year. Page 19.

TEXACO, the US oil group, and Shell Oil, the American subsidiary of Europe's Royal Dutch-Shell, both

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# Howe delivers new warning to Botha in bid to save mission

BY ROBERT MAUTHNER IN PRETORIA

SIR GEOFFREY HOWE, the Brit- ending apartheid and giving blacks ed to be making preparations to cir-ish Foreign Secretary, last night a greater say in running South Afri-cumvent any sanctions that might ish Foreign Secretary, last night warned Mr Pik Botha, the South Af-rican Foreign Minister, that his Government would have to make an important gesture, such as the release of Mr Nelson Mandela, the African National Congress leader, if it wanted to pre-empt further inter-national action against Pretoria.

The tough message from Sir Geoffrey, who is leading a peace mission to South Africa on behalf of the 12-nation European Community, was delivered at an unscheduled eting between the two foreign ministers, their second since last Wednesday.

Last night's talks, at which officials said Sir Geoffrey indulged in "some very plain speaking" in an ef-fort to save his mission from failure, will be followed tomorrow by a more important second meeting with Mr P. W. Botha, the South African President.

These discussions will be Sir Geoffrey's last chance before the Commonwealth mini-summit in London on August 3 and August 4 to persuade President Botha to announce steps which would convince

tion of Petroleum Exporting Coun-

tries reaching agreement on a plan

to revise output quotas looked dim as delegates assembled for a minis-terial conference beginning today. There is general pessimism about

chances of members reversing the

el that the majority of member

The new proposal, put forward at

the last quarter of 1986.

crude for the full year.

a greater say in running South Afri-

Minister, Mrs Margaret Thatcher, was planning to come to South Africa next month to try to pull the peace mission's irons out of the fire, were denied by British officials yes-terday. Sir Geoffrey and the South African leaders had not discussed such a possible meeting.

After five days in southern Afri-

ca, during which Sir Geoffrey has also paid lightning visits to Zambia, Botswana, Swaziland and Lesotho, the peace mission's prospects appear decidedly gloomy.
Sir Geoffrey has found no evidence to convince him that Presi-

dent Botha and his Government are prepared for what the Foreign Secretary has described as the "imaginative leap" required to save South Africa from descending into a spiral of violence and economic

On the contrary, the South African press is full of articles claiming that President Botha is thoroughly "fed up" with foreign interference in the affairs of his country. The the world that he is serious about Pretoria Government is also report-

Hopes fade of action by

To compound problems further,

there has been no shift in the posi-tion of the United Arab Emirates,

Opec's other main problem. Dr Ma-na Saeed Otaiba, the UAE's Oil

Minister, made it clear that Saudi

quota of no less than 1.5m b/d un-

In this situation the plan submit-

Opec to raise oil price

THE PROSPECTS of the Organisa-mental Iraqi barrel with two of its

slide in oil prices through produc-tion quotas even under a ceiling of forts had failed to modify the de-

17.9m barrels a day. This is the lev- mand of the emirates. It wants a

states concluded at the last meeting der any sharing scheme, compared

in Brioni Yugoslavia, a month ago with 950,000 b/d granted it under would be justified by the demand in the defunct ceiling of 16m b/d

the end of the Brioni meeting by Dr Subroto, Indonesia's energy minis-ter, is for a ceiling of 17.6m b/d, reckoned to be the demand for Opec

Since the Brioni meeting Presi- Based on what each individual

dent Saddam Hussein of Iraq, in member regarded as a share divi-particular, has categorically stated sion under a ceiling of 17.6m b/d his that his country will not accept any output quota smaller than that con-traction what each innivialization member regarded as a share divi-sion under a ceiling of 17.6m b/d his arithmetic would give Iran 2.4m b/d output quota smaller than that con-

ceded to Iran. For its part, Iran is der the old system their quotas

still uncompromising in its insis- were 2.3m b/d and 1.2m b/d respec-

agreed in 1984.

academic interest.

be adopted and for retaliatory action against the African frontline

states. Sir Geoffrey's tactics for beginning a dialogue between the Pretor ia regime and the country's black leaders have become clearer as his mission has progressed. Officials have stressed that the Foreign Secretary does not expect all the con-cessions to come from Pretoria, although he is equally emphatic that the South African Government must make the first substantial

move to break the logjam.

That first step, which would be of symbolic as well as practical importance, should be the release of Mr Nelson Mandela, according to Sir Geoffrey. However, it would not be a unilateral gesture. In return, Sir Geoffrey hopes to persuade Mr Oliver Tambo, the exiled ANC lead-er, to commit his organisation to a suspension of violence, at least during the proposed talks between the ANC and the South African Govern-

Continued on Page 16 Pretoria retains curbs on blacks' movements, Page 2

Under the Subroto proposal the

er more than 19m b/d in June.

The increase is almost wholly ac-

the Middle East Economic Survey (MEES). That compares with the maximum of 4.35m b/d conceded to

aimed at cajoling other member

into an accord

### **UK** funds reluctant to invest in **Eurotunnel** venture

By Andrew Taylor in London

AN INTERNATIONAL share place ing planned by the Channel Tunne consortium to raise £200m (\$300m) later this year seems likely to be snubbed by many of Britain's larg-est investment institutions.

Investment managers of 25 of the country's largest pension funds and insurance groups were asked in an informal poll held by the Financial Times: 'On the basis of information currently available, would you be prepared to consider investing in the Channel Tunnel development?" Only six funds said they were

prepared to consider investing in the UK-French rail link this autumn. Ten said they would definite ly not invest. Nine funds were undecided. Of these more than two-thirds thought it highly unlikely they would participate in the issue. Two of the funds which said they

might invest considered the project highly risky and were concerned that dividends would not be paid until the tunnel opened in 1993. They thought, however, it might be worth investing a small sum at this

stage just "to get a foot in the door."

Many investment managers were
worried they might have to wait even longer for a return on their investment if the tunnel did not prove an immediate success and faced stiff competition from ferry compa-nies. They felt the returns being offered were too low for the risks in-

Britain's share of the £200m plac-ing is planned to be around £70m. The issue, which had been due to place last Thursday, was postponed three weeks ago when it was rea-lised that detailed banking arrange-ments which needed to be included in the British prospectus would not be completed in time.

By comparison the French share 1.075m b/d. His plan was an ingeni-cus attempt to break the deadlock in an equitable fashion, since they were taken back to the 13 capitals of the placing, also around £70m, had virtually been concluded, according to the consortium, when the postponement was announced A in sealed envelopes. Opec output is reckoned to have risen in July to about 20m b/d compared with rathfurther £60m is to be raised in Japan, the US and other European

Eurotunnel, the Anglo-French consortium which in January won the mandate to build a 30-mile rail tunnel under the Channel said last counted for by Saudi Arabia's surge night that it was still confident of Sheikh Ahmed Zaki Yamani, the raising this money.
It said it had contacted 45 select-Saudi Oil Minister, declined to give

details of his country's rate of outed British institutions at the end of tion of Shipbuildi put. But the average for July is likely to be 5.7-5.8m b/d according to last year. Of these 30 had written to ing Unions to the Engineering Emduction hours necessary on a weekconfirm they would be prepared in ployers' Federation in a bid to per-principle to participate in the forth-suade employers to reduce the 39-sis." coming placing and also in a much larger equity issue planned The cost of building the tunnel

the kingdom under the 16m h/d ceil-Riyadh's strategy, which has inflation and into been mainly responsible for forcing taken their toll. inflation and interest charges had spot market prices in Gulf crude to below \$8 a barrel, is apparently

# Mexico seeks \$11bn to close payments gap

BY DAVID GARDNER IN MEXICO CITY

THE: MEXICAN Government esti-

Letter of Intent Mexico signed last Mr Gustavo Petricioli, the Finance week with the International Mone-Minister. tary Fund (IMF), agreeing in principle on a landmark, growth-oriented economic programme for the next 18 months, copies of which were released at the weekend.

the two impovative compensatory fi- per cent to 4 per cent of GDP by the nance facilities in the agreement at end of the first quarter of next year. a maximum of \$3bn, and also gives notice that Mexico "would ex- would be looking to its commercial pect... a medium-term restructur- bank creditors to provide about half ing or refinancing" of a \$950m of the new finance.

The new oil compensatory france per cent of national output. facility will provide during the first half of the 18-month agreement \$1

As part of this bid to widen domestic sources of financing, Mr Pefor each dollar lost from oil revenue tricioli announced late on Friday

below a average price per barrel of that the Government will this week \$9. In the second nine months, a issue new dollar-denominated Treagreater burden would fall on do- sury promissory notes. mestic resources in absorbing the

BY DAVID THOMAS IN LONDON

The unions are also prepared to

of their workers. The unions' concessions would

tained in the draft of a new national other union." agreement given by the Confederag and Engineer

hour working week. Both sides have been in long-run- need to adjust hours around season-

This additional credit would not mates it will need \$11bn in net new exceed \$2.5bn from all loan sources. credit from now to the end of 1987 and the currently envisaged level of to close the balance of payments financing would be reduced proporgap caused primarily by this year's tionately through the same mecollapse in the price of oil, its main chamisms if the oil price rises above export to keep up with payments on its \$97bn foreign debt.

This estimate is contained in the price of \$11 per barrel, according to mates are based on an average oil

leased at the weekend. heading this year for minus 5 per The Letter of Intent quantifies cent of GDP - fails to recover to 3

Mr Petricioli said that Mexico

principal payment already rolled The agreement envisages a high-over twice since October last year, shortly after the Mexico City earth-cent of GDP next year, and increased revenue equivalent to 1.2

Brazil's unsettled outlook,

# **UK** engineers offer to end job divisions

UNION LEADERS representing 1m of Britain's engineering workers have drawn up a draft agreement offering the end of demarcation in the engineering industry.

grant engineering employers much greater control over the deployment

sweep away the inflexibility of la-bour which has long characterised much of the UK engineering indus-

employers' counter-claim for more flexible working practices.

The union's draft agreement says: "Where more than one union has members in an establishment, those unions and their members will co-operate with the employer in eliminating unnecessary job demarcations between members of different unions It adds that workers will "per-form any task within the scope of their capabilities regardless of

whether the task forms part of their normal work, and regardless of whether or not the task is tradition-Acceptance of these points is con- ally performed by members of an-The unions also concede that "the

employer shall determine the pro-The union document accepts the

ning negotiations over the unions' al fluctuations in companies' decould rise to more than £5bn after claim for a shorter week and the mand and says that employers may

Continued on Page 16

# Stalemate in chips trade talks

BY LOUISE KEHOE IN SAN FRANCISCO

tence that it will match any incre-tively.

HOPES FOR a settlement of the bitter US-Japanese trade dispute trade dispute could be reached, yes over seminconductors appeared to dim at the weekend as a Saturday outlook for the talks.

that a negotiated settlement of the trade dispute could be reached, yes pan to a 20 per cent market share over the next five years.

Last week, three US chipmakers. deadline for the conclusion of nego-

mination that the negotiations must months. end by this Wednesday. "If there is no settlement by then,

we will take unilateral action," said an official from the US Trade Representative's office. July 30 is the deadline when the US Commerce Department must announce a final export prices. determinatic 1 of the first of two major anti- umping suits against Japanese chipmakers. If the suit goes ahead, the US is expected to impose stiff duties on Japanese-

US semiconductor industry exsuits against Japanese chipmakers

The apparent deterioration in the tiations passed without agreement. trade talks is understood to reflect Senior US and Japanese trade of increasing US and Japanese indusficials meeting in Washington adjourned their talks with the US in working agreements reached by Government reaffirming its deter-US chipmakers have this week

been seeking tougher enforcement clauses in the agreement, while the Japanese industry has apparently raised objections to aspects of the agreement relating to monitoring of "We are concerned that recent actions by the Japanese Government

and industry are not conducive to a settlement," said Mr George Scalise, chairman of the Semiconducket access for US companies in Jamade memory chips exported to the tor Industry Association public politic pan are not settled by Wednesday, cy committee.

US semiconductor industry executives met in Washington on Friday to consider alternative courses

The Japanese negotiators have tions are expected to go ahead. It is understood that the Japanese were pushing for an extension of the susof action if a broad trade agreement ment, said Mr Scalise. Earlier this pension of the anti-dumping suits, is not achieved. Additional dumping month, US and Japanese trade offi-which had been agreed earlier this cials are understood to have tenta- month pending the completion of

Japan: drink tax lowers ITT/CGE: system's hole in

Computers: Nixdorf's hunt Lex: gearing up at the Bank

gurus ...... 8 Survey ...... 9-11

Management: the guru of Italian defence industry:

Editorial comment: arms Water:

pan to a 20 per cent market share

Intel, Advanced Micro Devices and National Semiconductor, publicly accused Japanese semiconductor companies of dropping their US prices for Eproms (electrically programmable read only memories) commodity memory chips by about 22 per cent this month. The Japanese Eprom prices are approxi-mately one third of estimated production cost, the US chipmakers

Carla Rapoport adds from Tekyo: Officials at the Ministry for International Trade and Industry confirmed that talks on the dispute will continue this week.

recorded significant second-quarter are a strong possibility.

are a strong possibility.

US Government officials who unslump in crude oil prices. Page 17.

US Government officials who unslump in crude oil prices. Page 17.

In against appears that the tively agreed to set up a price and production cost monitoring system till recently were "very optimistic" designed to prevent dumping and a week.

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# When you want to move we don't hang around.

Once you've decided to relocate your business, you probably want to move sooner rather than later. Unfortunately, the task of wading

through endless spec sheets and visiting numerous sites soon slows you down. A visit to the new CNT Property Centre near London's Piccadilly rapidly moves everything into fifth gear.

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REPRESENTATION OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PAR

control; UK politics ...... 14 Survey ...... Section III

# Hassan resigns as Arab League summit chairman

BY TONY WALKER IN CAIRO

KING HASSAN of Morocco has resigned as chairman of the Arab League summit following criticism of his meeting last week with Mr Shimon Peres, Israel's Premier.

The Moroccan monarch was attacked by Arab hardliners, notably Syria which accused him of treason. King Hassan has been Arab League chairman since the organisation's last full-scale summit in Fez in 1982.

Although Arab reaction

Although Arab reaction to his talks with Mr Peres has been relatively restrained compared with the furious outcry President Anwar Sadat's visit to Jerusalem in 1977, King Hassan has apparently decided that Arab unity would be better served if he stepped down. In a letter to Chadli Klibi, secretary-general of the Arab League, King Hassan said he was relinquishing the job because of the "upheavals" in some Arab capitals following his meeting with Mr Peres.

from Cairo to Tunis in protest at Egypt's peace treaty with Israel in 1979, have been calling for an emergency summitt to smooth over differences among member states.

Morocco has said in the wake Morocco has said in the wake of the Hassan-Peres meeting it would welcome an Arab League summit to be held on "neutral ground" in Tunis. The Palestine Liberation Organisation has called for an emergency summit to consider "the repercussions of the (Peres) visit . . . and the dangerous results it could have." it could have."

The king handed over responsibility for organising the next Arab summit to Mr Klibi. The Moroccan ruler has been pressing for a full-scale summit meeting to deal with various issues dividing the Arab world.

### **Bush arrives in Israel for** start of Middle East tour

BY ANDREW WHITLEY IN TEL AVIV

been given to a tour initially initiatives. viewed largely in terms of Mr On the Bush's undeclared candidacy to succeed President Ronald Reagan in 1988 by last week's controversial summit in Morocco between Mr Shimon Peres, the Israeli Prime Minis-

ter, and King Hassan.
To maintain the fresh
impetus given by the Moroccan summit to the previously mori-bund Middle East peace pro-cess, the US Vice-President is expected use his influence over the next week to try to bridge the remaining minor differences between Israel and Egypt over arbitration on the Taba border

dispute.
Israeli officials hope this, in turn, will lead to another summit with an Arab leader—this time with President Hosni time with President Rushing Mubarak—possibly as soon as next month. A team in Mr tinian representation in any peace negotiations formed part of a 10-point position paper said to have been presented to the present of the present of

MR GEORGE BUSH, the US unusually broad welcome at Vice-President, arrived in Israel yesterday's regular Cabinet yesterday at the start of a meeting of the coalition 10-day tour of the Middle East. National Unity Government. From Israel Mr Bush is to Little criticism was believed to have everyweed to have everyweed by Likud yesterday at the start of a meeting of the coalition 10-day tour of the Middle East. From Israel Mr Bush is to travel on to Egypt, Jordan and possibly Morocco.

Additional significance has been given to a four initially initialized.

> On the other hand, two on the other hand, two prominent Labour ministers on the left of the party. Mr Ezer Weizman and Mr Mordechai Gur, spoke up publicly yesterday in support of Mr Peres's reported declaration to the Moroccan monarch that he was prepared to negotiate with prepared to negotiate with "authentic Palestinian repre-sentatives."

Mr Weizman, a former Defence Minister now serving as a minister without portfolio.
went as far as to say that he. for one, would be prepared to talk to Mr Yassir Arafat, pro-vided the Palestine Liberation Organisation chairman renounced terror activities against Israel and recognised UN Resolutions 242 and 338.

The Israeli Prime Minister's King Hassan in Ifrane, the report on his meetings with Moroccan summer resort, by the King Hassan was given an Israeli Prime Minister.

\$90,000,000

NORTHWEST ORIENT

Northwest Airlines, Inc.

investment in the leveraged lease financing of one Boeing 747-251B Aircraft to Northwest Airlines, Inc.

**Leveraged Lease Financing** 

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June 1986

### Delhi acts to stem Punjab violence

of the killing of 15 Hindu pas-sengers of a de luxe bus by Sikh terrorists last Friday. In spite of elaborate security

In spite of elaborate security precautions, the first Hindu backlash against the recently escalated terrorism in Punjab came on Saturday when rioting and arson shook the suburbs of west Delhi.

Hindu mobs went on a rampage and clashed with Sikhs and scores of shops, buildings and vehicles were set on fire. Police opened fire several times and the army staged flag marches but five people were killed and nearly 100 injured before order was restored.

Tension in Delhi and neighbouring states remained high yesterday and security measures, which included a show of strength by the army in Delni

strength by the army in Deini and Punjab, were strengthened. Many Punjab towns and parts of Delhi were under a round-the-clock curfew.

The recent communal vlo-ence between Sikhs and Hindus is directly linked to the feeling of insecurity among Hindus in terrorist-affected dis-

Hindus in terrorist-affected districts in Punjab from where hundreds of Hindu families have fled to Delhi and neighbouring states.

The weekend's violence in Delhi began soon after angry Hindu migrants initiated public mourning for those killed in Friday's outrage. They are said to have been provoked by militant Hindu organisations which have gained strength and suptant Hindu organisations which have gained strength and support in the past few months.

Mass migration of Hindus from Punjab and of Sikhs outside to Punjab as a result of terrorist activity in the state and a Hindu backlash was the goal of the late extremist leader, Sant Jarnail Singh Bhindranwale.

He was slain in the army

He was slain in the army action on the Golden Temple in Amritsar in 1984 to oust Sikh extremists

Gorbachev reproaches alcohol drive moaners of black people, despite the MR MIKHAIL GORBACHEV, abolition of pass laws earlier the Soviet leader, revealed this this month, weekend that his anti-alcohol campaign has cost his country reacted angrily to official indi-at least Roubles 5bn (£4.67bn) cations that residents of four in lost revenues since it began nominally independent tribal

June last year Chatting with citizens in a walkabout in the Far East port of Vladivostok, Mr Gorbachev repreached grumblers meaning at having to queue for hours for alcohol since the antialcohol campaign was launched.

### AFRICAN AND LATIN AMERICAN COUNTRIES TO CO-ORDINATE PRODUCTION Ivory Coast agrees to cocoa prices deal

THE IVORY Coast, the world's largest cocoa producer, finally assented on Saturday to a new international price-stabilising agreement for cocoa, thereby ensuring that it will come into force on October 1.

The agreement was far from ideal, Mr Denis Bra Kanon, the

The agreement was far from ideal, the Ivory Coast said, but it was sufficiently dynamic for the country to add its weight and give it

By not aligning itself for 80 per cent of world exports once with "Uncle Sam" and by countries taking at least by assuming its responsibilities in the latest talks, the EEC had shown that there was still hope for international commodity agreements in spite of the collapse of the tin accord, Mr Rra Kanon said on Saturday.

Countries accounting for at least 80 per cent of world exports and by countries taking at least 80 per cent of total imports.

A breakthrough came 10 days ago when the two sides agreed on a price adjusting mechanism centred on a reference price of collapse of the tin accord, Mr 103 cents a pound. The buffer stock manager will be obliged

ideal, Mr Denis Bra Kanon, the Ivory Coast's agriculture minister, said but it was sufficiently dynamic for his country to add its weight and give it credibility.

He emphasised, however, that the Ivory Coast would expect to fill one of the two key posts, executive director or buffer, secoutive director or buffer, covering the \$3bn a year stock manager, in the International Cocoa Organisation that will operate the agreement.

He also announced that African and Latin American producers would try to cordinate production and would seek co-operation with Aslan producers. Malaysia, the fastest

not a member of the current agreement. The US, the biggest come into force after ratification price. Producers will withhold importing country, is not taking by five cocoa producing cocoa from the market, if the countries accounting for at least indicator price falls below the lower intervention level for five stock at the same time is at 80 per cent of its capacity or has only enough cash left to buy 30,000 tonnes more cocoa.

The indicator price is the average of the daily prices on the London and New York exchanges over a period of 10

consecutive days.

The withholding scheme is limited to maximum of 120,000 tonnes with cocoa being with-held in tranches of 30,000 tonnes a time.

The buffer stock limit is 250,000 tonnes against its present level of 100.000 tonnes but it may be raised to 350,000 tonnes, if the new agreement is extended from three to five years.

**OBSTUARY** 

Averell

Harriman,

shaper of

**US** policy

THE millionaire banker and

statesman, Mr Averell Harri-man, who died in New York at the weekend, aged 94, had a

diplomatic career that spanned

four decades and was a key shaper of US policy towards the Soviet Union from World War II into the era of detente,

Mr Harriman served in high-ranking posts in the Adminis-trations of five out of seven US Presidents from Franklin Roosevelt to Jimmy Carter as well as serving one forwards

well as serving one four-year term as governor of New York, His first visit to the Soviet Union in 1922 included a dis-

cussion with the revolutionary leader Leon Trotsky. On his last visit there in 1983, he met Mr Yuri Andropov, the then Soviet leader, who urged better East-West relations.

The son of a railway tycoon.

Mr Harriman was appointed by Franklyn Roosevelt in 1943 as

ambassador to Moscow, where he sought to keep the often-tense wartime alliance on the best

possible footing.
But as the war drew to a close

and he became aware of Stalin's designs on eastern Europe, Mr

### South Africa issue divides OAU leaders

BY MARY ANNE FITZGERALD IN ADDIS ABABA

Unity heads of state summit opens in the Ethiopian capital of Addis Ababa today in a mood of militancy and frustration. Its 50 member states are angered by the reluctance of Western leaders, especially Mrs Thatcher and Mr Reagan, to impose sanctions against South Africa.

One resolution calls for African countries and non-African countries and non-aligned states to force Mrs
Thatcher's hand through economic reprisals, sports boycotts and a severance of diplomatic ties. Another resolution to be considered by the leaders condemns Britain, the US, West

Company France and Israel for considered by the leaders con-demns Britain, the US, West Germany, France and Israel for their "economic and nuclear" collaboration with South Africa.

OAU member states must also approach may make OAU states it is put in place, Kenya would address themselves to the question of sanctions rather be seriously affected. Nairobi

Pretoria keeps

curbs on blacks'

movements

Opposition groups

Venda and Bophuthatswapa— are now regarded as aliens in

South Africa who may not move to "white" urban areas with-

out proof of housing and work. These homeland residents

and their employers face sub-stantial fines or imprisonment if they contravene the new rules, which are the same as those applicable to foreigners from abroad, The Government's

interpretation of the citizen-ship and alien laws is expected

citizens of the four homelands when they were granted inde-pendence by Pretoria.

According to a memorandum

published by the Department of Home Affairs last week, the

Restoration of South African citizenship Act passed earlier

this year applies to only about 1.75m of 9m "citizens" of the

Part of an electrified security

four homelands.

to be challenged in court. The new controversy stems from government promises earlier this year to restore South African citizenship to people forced to become

Transkei, Ciskei,

THE Organisation of African tion of whether it is white or black Africa that will come under siege if an embargo is Even though the OAU has long opposed economic and political ties with South Africa, trade between the two parts of the continent amounts to more

than \$1bn a year. Sanctions would seriously destabilise the

already embattled economy of Zambia, one of the strongest neighbours South Africa and is landlocked, have remained

collaboration with South Africa. Silent on sanctions.

The overthrow of P. W. The OAU will almost cerbotha's regime is dominating the conference but the means of achieving this are dividing the EEC and Commonwealth the conference of the t delegates. This is because have done. The blurred OAU member states must also approach may make OAU states



Mr Botha: overthrow planned

than South Africa. Nigeria has proposed a ban on overflights and shipping movements to South Africa. If

airport refuels 38 weekly flights to and from Johannesburg, bringing in annual revenues estimated between \$25m to \$50m. Kenyan President Daniel Arap Moi will be absent at today's meeting,
Depleted OAU finances have

robbed the organisation of put-ting any further pressure on South Africa.

With arrears subscriptions estimated at \$35m, suggestions such as a pan-African rapid deployment force to counter cross-border attacks from Pretoria's armed forces were shelved before the summit Instead, the OAU is likely to

opt for bolstering opposition towards Mr Botha's administration through undisclosed and voluntary contribituons of money and arms to the African National Congress.

Nigeria has disclosed it has movements this year,

# IMF flexibility pleases Egypt

BY TONY WALKER IN CAIRO

EGYPTIAN OFFICIALS are return for IMF support. change rates for the Egyptian encouraged by the International Monetary Fund's involve gradual reductions in apparent flexibility in its agree-the budget deficit in the next 18 exchange. By Bernard Simon in Johannesburg PHE South African Government is to maintain tight controls over the movement of millions

comfort from West Germany about Bonn's plans to build a controversial nuclear reprocessing plant 130km from the Austrian border near the tiny Bavarian town of Wackersdorf.

Mr Hans Dietrich Genscher, the West German Foreign

the West German Foreign Minister, met his Austrian counterpart, Mr Peter Janko-

witz, for talks on the plant on Saturday in Saltzburg, where Mr Genscher was attending the annual Saltzburg festival. Vienna has asked both the

critical debt service position. It the burden of subsidy payments is in arrears to most of its on the national budget and to

Bonn stays firm on N-plant

However, Mr Genscher told

Mr Jankowitz that Bonn had no

intention of slowing its nuclear

apparent flexibility in its agreement to provide Mexico with some US\$1.6bn over the next 18 months. Absent from the plan is the usual IMF bad medicine such as a big currency devaluation, deep budget cuts and tight assistance.

Egypt's application for IMF assistance.

Egypt has approached the IMF for balance of payments support to help deal with its some US\$1bn. The IMF has support to help deal with its the burden of subsidy payments the budget deficit in the next 18 months. Absent from the plan is the usual IMF bad medicine but usual IMF bad medicine such as a big currency devaluation of the US dollar designs on eastern Europe. Mr Harriman became and he became aware of Stalin's designs on eastern Europe. Mr Harriman became and Moscow's objectives were irreconcilable. Egypt is seeking a standby facility from the IMF totalling other transactions such as the purchase of airline tickets.

These will be Egyptian designs on eastern Europe. Mr Harriman became and he became aware of Stalin's designs on eastern Europe. Mr Harriman became and significant that washington's and Moscow's objectives were irreconcilable. He helped to convince the then purchase of airline tickets.

These will be Egyptian pounds 0.70 to the US dollar that Washington's and Moscow's objectives were irreconcilable. He helped to convince the then provide a such as the purchase of airline tickets.

The black market rate for the Egyptian became a such as the purchase of airline tickets.

The black market rate for the Egyptian became and the became aware of Stalin's designs on eastern Europe. Mr Harriman became convinced that Washington's and Moscow's objectives were irreconcilable. He helped to convince the then provide a standby objectives were irreconcilable. The busy designs on eastern Europe. Mr Harriman became a design of that Washington's and Moscow's objectives were irreconcilable. The busy design of the US dollar that Washington's and Moscow's objectives were irreconcilable. The busy design of the US dollar that Washington's and Moscow's obje Egyptian Pound is about E£1.90 to the US dollar. Mr

early advocate of detente and negotiated the 1963 limited nuclear test ban treaty creditors on its more than institute reforms of its multiUS\$95bn foreign debt.

A senior Egyptian official official rates for the Egyptian official floating rate (of about said Egypt welcomed the IMF pound bear little relation to its E£1.35 to the dollar) would agreement with Mexico. The Mexicans agreed to instant the Egypt has announced that it registered banks in Egypt for long-term economic reforms in is reducing the number of example of the content of the conte

nuclear test ban treaty
In later years, Mr Harriman
was a special envoy for Presidents Lyndon Johnson and
Jimmy Carter. From 1968 to
1969 he was the chief US negotiator in the Paris peace talks
with North Vietnam.
Through the 1970s and 1980s
he remained a leading advocate
of arms control, urging in 1983

he remained a leading advocate of arms control, urging in 1983 that both Washington and Moscow cut their nuclear arsenals by 50 per cent.

Mr Harriman is survived by his wife, Pamela, an influential Democratic Party fundraiser who was born into an aristogratic British family Ho raiser who was born into an aristocratic British family. He also leaves two daughters, six grandchildren and six great-grandchildren.

FINANCIAL TIMES

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AUSTRIA has failed to win any to think again about building with other neighbours which comfort from West Germany the plant, drawing a furious produced nuclear power, Mr about Bonn's plans to build a response from the Bavarian Jankowitz said.

Controversial nuclear reprocessial nuclear nuclear power, Mr Strauss, who refused to Mr Strauss, who refused to attend the Salzburg Festival, is unlikely to be impressed by Mr Genscher's apparent commitment to Wackersdorf, however.

programme or of imposing a limited halt to construction at Wackersdorf in order to reflect further on the proposed plant, which will be the country's first. The Foreign Minister's own party, the Free Democrats (FDP), voted at a conference in Hanover in May to conduct a "review" of the Wackersdorf proposal and decided anyway that permanent storage of Mr Genscher was attending the He was, in turn, assured that "review" of the Wackersdorf annual Saltzburg festival. Vienna had not voiced its doubts proposal and decided anyway Vienna has asked both the about the project in order to that permanent storage of Federal Government in Bonn embarrass Bonn. Austria was nuclear waste would be cheaper and Bavarian State Government carrying out similar exchanges and safer than reprocessing.

# Part of an electrined security fence between South Africa and Mozambique will be switched on from August 1, a defence force spokesman said. French Riviera counts cost of forest fires

and ashes filled the air yester-day along the Corniche between Nice and Monte-Carlo. But the forest fires, which in

48 hours disfigured one of the most picturesque parts of the Riviera, killed one woman, devastated 7,000 hectares of pine, mimosa, Mediterranean oak and olive trees, and

THE PARCHED ground was still hot and the smell of smoke and ashes filled the air yester-day along the Corniche between Nice and Monte-Carlo.

But the forest fires, which in But the medicary of the Newson Monage and Nice.

But the forest fires, which is and cables destroyed by fire.

Around the medicary and Nice.

Managed scores of villas, were will probably boost it. "The bleen coming under increasing public criticism for failing to attraction. But the landscape is likely to remain scarred for many years."

Meaning the coming under increasing public criticism for failing to check the fires which keep recurring with a vengeance every summer.

Around the medicary and Nice. Eze, between Monaco and Nice, the landscape had taken on a The landscape has taken lunar aspect.

Eze was perhaps worst hit by the blaze which started on the Riviera last Thursday. Mr Andre Gianton, mayor of Eze, said two-thirds of his commune had been searched by the had been scorched by the flames—" a tempest of fire," in the words of Col Claude Calatayud, head of the region's fire, fighting services—and that damage to property totalled at least FFr 40m (£3.3m).

However, and the fires of the past few days on the Riviera have been particularly devastating they are sadly a regular summer demands to property totalled at least FFr 40m (£3.3m).

Forest fires have become an approximate receiving the control of the past few days on the Riviera have been an arranged control to the past few days on the Riviera have been and arranged control to the past few days on the Riviera have been arranged to property totalled at a requirement of the past few days on the Riviera have been particularly devastating they are the past few days on the Riviera have been particularly devastating they are the past few days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly devastating they days on the Riviera have been particularly days on the Riviera have been particul

More than 2,000 people had annual ecological tragedy for to be evacuated as 2,500 firemen the country, but this year, with and soldiers, some dispatched already more than 19,000 hecand soldiers, some dispatched already more than 19,000 hec-from Paris, fought the fire tares destroyed in the south and which at one stage threatened Corsica, could beat the record the outskirts of Nice and of 1979.

Claude Hirt, manager of the grow to a good height again," Chateau de la Chevre d'Or, one be said. of the most famous hotels on There is also increasing risk of the most famous hotels on the Cote d'Azpr, said.

on a lunar aspect, with

Monaco.

At Eze, the entire village had official warned that France's to be evacuated. "In all my Mediterranean forest was at years here, it's by far the worst serious risk of eventual fire I've seen, far worse than extinction. "It will take at the fires of 1970 and 1978," Mr least 70 years to see the trees of 1970 and 1978," Mr least 70 years to see the trees (Claude, History and 1978, "Br grow to a good height again."

the Cote d'Azpr, said.

Mr Hirt did not think the more rugged areas such as the blaze would affect the local tourist business. If anything, it

Mr Jacques Chirac, the rightwing prime minister, pledged on
Saturday that the Government
would introduce measures to
help increase the proctection of
French forests, and combat
fires, Mr Charles Pasqua, Interior Minister, also announced
an imminent reorganisation of
civilian security services.

But the problem is that
many of the forest fires are
due not only to carelessness but due not only to carelessness but

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Financial Times Monday July 28 1986

### WORLD TRADE NEWS

### Pressure on Algeria over natural gas price

SONATRACH, the Algerian state oil and gas corporation, is under intensifying pressure to change the way in which it calculates the price of natural gas in the face of the continuing fall in the price of crude oil.

The organisation is facing a sharp decline in foreign income earned from natural gas sales last year because of the fall in world energy prices. Total energy sales abroad last year were worth \$12.6bn (£8.2bn) approximately a quarter of which were in natural gas.

A clear signal as to how Sona-trach will respond to these pres-sures will emerge when Algerian energy officials and Gaz de France, the company's second biggest overseas cus-tomer, begin yet another round of talks at the end of the summer.

The organisation is also facing pressure from other European clients who wish to change the basis on which the price of Algerian gas is cal-

They would like to give up the list of eight market crudes which has been used in recent years and directly ling the price of the gas to competing energy sources, such as fuel oil, gas oil and electricity.

By July 1, the average fob price of Algerian gas sold to European gas utilities stood at \$2.36 per million British thermal units (BTUs).

The Algerian price is falling faster than that of gas from the Netherlands, the Soviet Union and Norway, among others. because Sonatrach has insisted in its current contracts on a short reference period—three months compared with seven-to-nine months for the Nether-lands, and six for Norway and a three-month review period for the eight market crudes from which the price of its gas is calculated.

Meanwhile, Sonatrach and the Belgian Distrigaz company, which have been locked in difficult negotiations since last year, have agreed to suspend, at least until April 1987, the arbitration proceedings on price and volumes instigated by the Belgians last April 1. Talks on new terms will resume later this summer.

In its interim agreement with Distrigaz, Sonatrach has sug-gested the Belgians pay a price based on the interim one agreed Sonatrach and Gaz de France

### French tourist earnings fall

FRENCH tourist earnings have fallen sharply this year due mainly to fewer US visitors, of the weaker dollar and fear of terorrism, Mr Alain Juppe, the government spokesman said ' yesterday, Reuter reports.

Figures presented to the Cabinet showed that the net surplus on tourism would be between FFr 19bn (£1.5br) and FFr 25br this year, down from the record 1985 surplus of FFr 31.5bn.

\*\*Exports of machine tools to the US for a five-year period, US trade-policy officials said, AF-DJ reports.

The US is expected to start similar bilateral negotiatics with Japan in Tokyo in mid-August.

### SHIPPING REPORT

# Demand for oil tankers

FINANCIAL TIMES REPORTER

### World Economic Indicators

|             |         | (Ossii) |         |
|-------------|---------|---------|---------|
|             | May 86  | Apr. 86 | Mar. 86 |
| US          | 14,320  | 15,062  | 13.965  |
| W. Germany  | 37.726  | 39,930  | 39,865  |
| UK          | 11,172  | 11,361  | 10,733  |
| Jepan .     | 28,197  | 26,686  | 23,540  |
| Italy       | 17,336  | 15.662  | 13,370  |
| Belgium     | 5.222   | 4,216   | 3.981   |
| Netherlands | 9,156   | 9,550   | 9.284   |
| Metners     | Mar. 86 | Feb. 86 | Jan. 86 |
| France      | 24,135  | 24,190  | 23,836  |
|             |         |         |         |

Carla Rapoport reports on a trade dispute that has become a marathon in duration and bitterness

# Japan's drink taxes make spirits sink in Brussels

AS TRADE disputes go, against any quality product, be Europe's quarrel with Japan it imported or domestic. The over taxes on imported spirits Europeans argue that Japanese has become a marathon in premium whisky does not terms of duration and bitter-deserve the name.

After another fruitless round of talks in mid-July, EEC officials prompted the Council of Ministers to call for a complaint to be filed against Japan with the General Agreement on Tariffs and Trade (Gatt) if the issue is not settled by October.

This action underlines the General Agreement of Tariffs and Trade (Gatt) if the issue is not settled by October.

This action underlines the sense of hopelessness most European traders feel about changing tax system which Japan imposes on mported spirits and wines.

But, unlike most trade dis-putes, this time Europe has some powerful support behind enemy lines—namely Japan's own liquor industry.

In a recent submission to the government, the Japan Spirits and Liquor Makers Association complained: "As we have explained several times in the past, consumers seem to have lost a sense of appropriate prices for spirits and liquors after successive tax hikes."

It called for an immediate reduction in taxes on spirits, as well as a complete revision of compla-the current drinks tax system keting.

The current, graded tax importers expect the top then system for spirits discriminates whiskies to sell themselves. A better.

### West Germany, Portugal sign frigates pact

WEST GERMANY and Portugal have signed an agreement for a DM 1.9bn (£487m) project to build three frigates at West German shipyards for Portugal's navy, officials said, Reuter

reports.
Seven other North Atlantic Treaty Organisation nations will help equip the three Meko-200 anti-submarine frigates which will be built by the West German Meko consortium at the Blohm und Voss and Howaldt-werke Deutsche Werft ship-

West Germany is to contri-bute about DM 500m of the total cost of the frigates under the accord signed by the Portuguese and West German Govern-ments and the consortium of which the shipyards form part. Portugal is to contribute a similar amount to the project, to be paid over five years. As a trade counterpart to this, West Germany agreed to purchas Portuguese products.

About DM 600m is to come from the US and the rest from other Nato nations.

### US, Taiwan to hold machine-tool talks

negotiations in Washington in early August on a bilateral agreement to restrict Taiwan's exports of machine tools to the US for a five-year period, US trade-policy officials said, AF-DJ reports

# likely to grow by 28%

importers are realised.

'Operators of the biggest vessels — ULCCs and VLCCs —
are expected to benefit and spot rates should rise substantially, according to the latest monthly report from Drewry Shipping Consultants.

DEMAND for oil tankers is expected to grow by 28 per cent over the next five years if forecasts of increased output from members of the Organisation of Petroleum Exporting Countries and rising demand from importers are realised.

Operators of the biggest vessels — ULCCs and VLCCs — are expected to benefit and spot rates should rise substantially, according to the latest monthly report from Drewry Shipping Consultants.

There could even be shortages of ships between 25,000 and 90,000 dwt because of increased trade in oil products, it claims.

The report says lower bunker prices have already reduced voyage costs for tankers and bulk carriers by up to 55 per cent.

The recent surge in output and demand have pushed freight rates up, and Drewry calculates that at current spot rates, a very large crude carrier running between the Gulf and northern Europe will make a profit of \$800,000 (£522,875) after voyage and operating costs.

The increase in oil trades,

# FOREIGN EXCHANGE RESERVES

|                     |   | (USSm)   |  |   |
|---------------------|---|--|--|---|
| many<br>m<br>rlands | May 86<br>14,320<br>37,726<br>11,172<br>28,197<br>17,336<br>5,222<br>9,156<br>Mar. 86<br>24,135 | Apr. 86<br>15,062<br>39,930<br>11,361<br>26,686<br>15,662<br>4,216<br>9,550<br>Feb. 86<br>24,190 | Mar. 96<br>13,965<br>39,865<br>10,733<br>23,540<br>13,370<br>3,981<br>9,284<br>Jan. 86<br>23,836 | May 85<br>7,158<br>33,781<br>7,468<br>23,191<br>17,611<br>4,138<br>7,522<br>Mar. 85<br>19,602 |
|                     |   |  | Source   | : IMF   |

(imported and domestically produced)

"The whisky industry in Japan has problems — it is not scotch versus domestic brands; it is a total industry problem.

People are drinking less. I don't
think we should fight, but cooperate," said a senior Japanese industry executive recently.

Sales decline

on whisky as the main source of the problem, industry executives also blame the drop on the industry's somewhat complacent approach to mar-

"In the case of scotch, most

JAPANESE LIQUOR MARKET

| (Kilolitres—rounded up figures) |           |           |           |  |  |  |  |
|---------------------------------|-----------|-----------|-----------|--|--|--|--|
| Drink                           | 1983      | 1984      | 1985      |  |  |  |  |
| Sake                            | 7,481,549 | 1,348,667 | 1,340,975 |  |  |  |  |
| Shouchu*                        | 398,077   | 544,732   | 631,514   |  |  |  |  |
| Beer                            | 4,962,985 | 4.688,190 | 4,794,361 |  |  |  |  |
| Fruit liquor                    | 94,255    | 90,985    | 91,124    |  |  |  |  |
| Whisky                          | 381,135   | 305,230   | 267,362   |  |  |  |  |
| Brandy                          | 24,027    | 22,772    | 25,897    |  |  |  |  |
| Liqueurs                        | 28,405    | 89,768    | 94,781    |  |  |  |  |
| Other spirits                   | 12,548    | 40,710    | 36,324    |  |  |  |  |
| Others                          | 100,844   | 104,568   | 114,903   |  |  |  |  |
| Total                           | 7,475,929 | 7.735.649 | 7 397 127 |  |  |  |  |

based consumer advertising does not suit a high value, lowvolume product such as premium whisky. If the punishing taxes, which are more than 20 times those imposed on the cheapest spirits, are reduced, then the imports would do

the market for spirits as a prestige, so it is mostly market high price guarantees high whole was fairly stagnant. Special grade whisky sales, both imported and domestic, dropped by 36 per cent in the period.

While the spirits and liquor makers blamed the harsh taxes on whisky as the main source of the problem.

Indeed, for Suntory, satura-tion of prime time television advertising is now no longer sufficient. In Shinjuku, one of Tokyo's night club areas, Suntory has set up Suntory shot bars, which are Western-style

can down a shot of whisky on their way home from work.
Suntory also has started a chain of Suntory bars, where customers can order whisky with food, and opened the Newport Jazz Bar in central Tokyo where patrons can sip bourbon and whisky while listening to jazz.

"Liquor taxes are a very significant part of our revenues, but this is a domestic problem and when outsiders complain that creates an issue of sover-eignty."

Meanwhile, the price of, say, Johnnie Walker Red Label in Japan is about Y4,000. Despite the appreciation of the yen, the prices of imported suirits

Still, taxation remains a give any quarter. Taxes and tax so much tax that it would be reform, officials say, are domes-uch more expensive than tic issues not to be influenced locally produced whiskies." by outside forces.

Officials say: "This isn't England, where you have a budget day and announce taxes just like that. Our system is changed by the slower process of review and consultation."

### Tax review

Finance Ministry officials point out that Japan is now undertaking a grand-scale tax review, the first since the 1950s. The Tax Commission, which is carrying out the study, reports directly to the Prime Minister and is expected to complete its work by October or November.

"We understand the EEC complaint, but it can't be solved until the tax review is finished. We don't have a value-added tax system and we have a huge budget deficit.

Japan is about Y4,000. Despite the appreciation of the yen, the prices of imported spirits have not been reduced. major vexation for those both As one importer explains: within and outside Japan. The "We could value the product Ministry of Finance refuses to at zero and it would still attract

> Popular whiskies in Japan are weaker than scotch and are routinely mixed with a lot of water by customers. As their ingredients are poorer than Portugal. those used to make scotch, these popular Japanese whiskies attract much less tax and generally sell for less than

Y3,000 (£9.50) a bottle. Parallel importers, who are not official brand name distributors, are starting to gain

Some industry executives estimate that as much as one-third of scotch whisky sold in Japan is now sold by parallel importers. "These are not happy times for the whisky industry, Japanese or foreign," concludes an industry executive

### Lisbon given edge over Spain in goods row

By Diana Smith in Lisber

BRUSSELS has given Portugal BRUSSELS has given Portugal the edge against Spain in a dispute between the two countries over the percentage of nationally-made content that must be carried by Portuguese goods entering Spain free of Customs duty.

Earlier this year, in response Earlier this year, in response to Spanish concern that Portugal would become a sort of packing department for third-country or EEC goods finished cheaply with Portugal's low labour costs, the EEC Commission issued a regulation demanding 60 to 78 per cent national content of goods that Spain would allow in duty-free from Portugal.

Portugal protested and made a counter-claim for national content of 25 to 30 per cent which the Spaniards found totally unacceptable.

The Council of Ministers in Brussels has now voted for a 30 to 35 per cent Portuguese national content rule-of-origin requirement to come into force on October 1 this year and last until 1989.

This means that now not only EEC electrical or elec-tronic goods cheaply finished or packed in Portugal could pour on to Spanish markets, but so can South Korean TV sets, assembled in Portugal.

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Tory chief

reform of

for jobless

THE POSSIBILITY of differential

rates of unemployment benefit be-

ing paid in various parts of the country was raised last night by Mr

Norman Tebbit, the Conservative Party Chairman, John Hunt writes.

He suggested that it might be fea-

sible to pay lower rates in the most

prosperous areas where jobs were more readily available and higher

rates in the areas worst hit by un-

It was emphasised that Mr Tebbit

employment.

hints at

benefits

By David Thomas

the prices of some of its international digital satellite services. It is also establishing a long-lease satellite service with discounts on existing

Stream high-speed digital circuit for voice, video-conferencing and data communications, as well as on BT's parallel KiloStream service.

cent and are being offered on SatStream's high capacity circuits. They are intended to persuade customers to increase the amount of data which they send by satellite. BT thinks that its high capacity circuits may have been over-priced relative to its low capacity satellite circuits. At present, customers lease circuits for short periods of variable length. BT is now introducing three to five-year leases on which there

BT's satellite service began with a link to Canada in 1984. Links were extended to the US and Europe last year. Mr Mike Ford, chief BT International, said that demand for SatStream was growing "very satisfactorily" with almost 50 large

companies now using it.

G BT has been accused by the Naunion says the company seemed de-termined "to treat its shareholders

# Government will press on with plan for poll tax

amental reform of the rates (local and domestic ratepayers. Any altproperty tax) system despite vocal opposition from those likely to be a political gamble as it involves losworst hit, including local authorities and industry in south-east Eng-

The reforms, based on a uniform business rate and the replacement of domestic rates by a community charge or poll tax, will form a key element in the Conservative Party manifesto for the next general elec-

But as an indication of the priority the proposals would have if the Government retained power, ministers are considering publishing a bill before the election, rather than a White Paper (Policy document). Nothing has happened that makes us doubt that the basic structure of our proposals is right," Mr

ment Minister responsible for local government, said. We are gathering confidence that this is the right thing to do in

William Waldegrave, the Environ-

policy terms," he said. The news will come as a blow to many local authorities in the southeast, including Westminster City Council, which has been conducting a campaign against the uniform business rate. They fear it would increase rates in their areas by at least 15 to 20 per cent and drive

business away.
Until Mr Waldegrave's comments, which have the firm support of Mr Nicholas Ridley, Environment Secretary, there had been way than it is prepared to deal with its own staff." continuing doubts over the Government's commitment because of the

THE COVERNMENT is deter- adverse impact the proposals would mined to press ahead with the fund- have on a wide range of business

> ers as well as gainers. Ministers have found a substantial degree of support for the re-forms within the Conservative Party, however, and a majority of reso-lutions submitted for debate at the Tory Party conference in October have been in favour.

> Mrs Thatcher told the 1922 Committee of Conservative backbenchers last week that she was determined to push ahead with the reforms which would be introduced from 1990 in England and Wales. Scotland is on an advanced timetable and a bill will be in the Queen's Speech in November for the introduction of the changes

there from 1988-89. Consultations on the proposals, which were outlined in a Government Green Paper (discussion document) published last January, continue until the end of October. A decision will then be made on when to

publish a White Paper or a bill. The key proposals are to replace domestic rates over a 10-year period from 1990 with a poll tax on all adults, and to replace the non-domestic rate by a national business rate levied on all commercial and industrial property. The proceeds would be pooled centrally and redistributed to all local authorities.

A uniform business rate would involve a strong redistributive ele-

long-term investment.

Mr de Rothschild is thought to have argued that increasing competition between the FT and the Economist was leading to conflicts of interest and that Pearson's stake should be sold to

grow at such a sp

Pearson is understood to reject

BRITAIN SUPPORTS LESS RESEARCH THAN TRADING RIVALS

# Call to boost scientific spending

BRITAIN is spending less on scientific research per head of popula-tion than the US, Japan, West Germany, France or the Netherlands.

Its spending on research is also lower than any of its European trading rivals as a percentage of

gross domestic product. These facts emerge from the latest report of the UK Government's Kenneth Baker, Secretary for Education and Science, on the national

science budget.
The present planning figure for the 1987-88 science budget is £628m. The Advisory Board for the Research Councils, under the chairmanship of Prof Sir David Phillips, the Oxford biophysicist, recom-mends an increase of at least £35m (5 per cent) in the science budget for 1987-88, rising to £50m more (8 per cent) in the following year, and £80m (10 per cent) in 1989/90.

It believes these additions would restore the real value of the science budget to its 1980 level. The advisory board also wants

compensation for exchange rate changes on national subscriptions to international research programmes, which will erode an estimated C9m from the 1987-88 budget. Sir David, in a letter accompascientific advisers, who brief Mr nying his latest report, says the morale of the British scientific community has never been lower.

According to his report, the na-tional needs which the science base exists to meet have become more pressing in recent years, and the ressures are still growing.
Industry's expectations of the

science base have increased and are continuing to increase. Throughout the developed world, the industries which helped to foster the postwar economic boom cars, electronics, consumer goods,

aceuticals and petrochemicals - are creased their public spending on now mature industries.

New science based core technologies are now being developed, which offer the promise of revitalising old industries and launching new ones.

Concern about the already weak and arguably deteriorating competitive position of British industry inses the pressure on the science base, the advisory board says. It finds considerable evidence

that British industry is recognising the increasing importance of closer interaction with the science base, and says there are examples of industry "recruiting leading academic scientists, in some cases complete with their entire research teams." The volume of research commis-

sioned by industry from the science base has also grown. But there is foreign competition from major eco-

semiconductors, aerospace, pharm- nomic competitors who have inscience - "in some cases very significantly.

The brain drain of scientists from Britain provides evidence of the failure of its investment to keep up with that of its competitors, the board says.

• The Government has authorised 33 British universities and university colleges to exploit inventions arising from work funded by the research councils. Most other universities are still discussing their schemes with the scrutiny group, set up to vet ideas for exploitation dently of the British Tech-

nology Group.
Science and Public Expenditure
1986: report from the Advisory
Board for the Research Councils.
Available free from the Department
of Education and Science. Room
561, Elizabeth House, York Road.

UK MOTOR TRADE

**EXPORTS** 

**IMPORTS** 

1986 1985 285.9 333.4

95.8 102.6

1.206.5 1.098.8

225.2 187.0

788.8 724.1

-920.6 -765.4

-129.4 - 84.4

**\$58.1** 

was speaking spontaneously in re-sponse to a question during an audi-ence participation session on York-shire Television. Nevertheless, it is clear that has 📑 given some thought to the matter and it could be one of the subjects

discussed in the Tory party policy groups which later this year will start drawing up a programme for the party's next general election

Mr Tebbit told television viewers: Perhaps we should be a little tougher on the benefits in those areas where there are jobs so that we can be a little more generous in areas where there is high unemployment"

"Some people find life on the safety net a little too comfortable. They don't attempt to climb the ladder. But these days it is not unusual for people to take jobs and leave themselves worse off than they would have been on benefit."

Mr Michael Meacher, Labour's social services spokesmen, said last night: "How can Mr Tebbit serious-ly pretend that unemployment benefit is a disincentive to return to work when the number of unemployed is over 10 times the number of vacancies at any time? His vendetta against the unemployed is simply a blind to distract attention away from the real cause of rising mass unemployment – the Govern ment's own restrictive monetarist

☐ PROPOSALS from the European Commission on legislation to be delegated from Westminster to Brussels contains too few checks, according to a House of Lords report. The Lords select committee on the European communities welcomes the principle of more delegation, which it believes will make the EEC more efficient and speed up progress towards a real common mar ket. But it fears that vital national and individual interests and the

principle of democratic accountabilthorities, charities or churches. The ity could be at risk. Government and Confederation of British Industry have been examining ways of increasing private sec-tor involvement, including possible three days of discussions between employers and unions. The two sides were "a long way apart" on proposed salary levels, although broad understanding has been reached on some aspects of teachers' future contractual duties, said a

local authority spokesman.

□ JOINT TUC-Labour Party prop sals on changes in employment law
- which would require unions to hold secret ballots - will come un-der fire at the TUC Congress in September, according to the preliminary agenda

☐ EMBARRASSED by disclosures during the Brinks-Mat gold robbery trial last week, the Government is already studying ways in which banks can be encouraged to tip-off authorities about suspicious movement of funds. It was disclosed dur-ing the trial that a gang passed many millions of pounds of bullion through a bank in Bristol with ap-parent indifference to any risk of

□ NATIONAL Seed Development Organisation, which derives most of its income from producing and mar-keting seed varieties, is to be priva tised along with the research func-tion of the Plant Breeding Institute.

The Department of Education and Science intends to sell the two bodies together to a private buyer either to a commercial company or to their own staff, who are trying to mount a management buy-out. Min-isters have ruled out a share flotation.

☐ THE LIBERAL/SDP Alliance launched a campaign to present a united front at the next general election and to rebut Labour and Conservative allegations of differences between the two parties.

### FT refuses to sell 50% stake in Economist

By Martin Dickson

MR EVELYN de Rothschild, chairman of the Economist publishing company, and senior members of its staff are understood to have approached the Pearson group recently and proposed that it sell its 50 per cent stake in the Economist.

However, Pearson - which owns the Financial Times and holds its Economist stake through the FT - is understood to have rejected the idea, viewing the shareholding as a sound

The approach preceded a clash last week between Pearson and the Economist's management, led by Mr de Rothschild, over an increase in the company's bor-

other interested parties, includ-ing senior Economist executives.

Mr de Rothschild was not available for comment yesterday but he was quoted at the weekend as saying that the Economist had expanded into areas of competition with the FT and "Pearson may not want us to

the conflict of interest claims and to suspect that the manocuvre might have been an attempt to buy it out cheanly.

Last week a resolution to increase the Economist's borrowing from £1.2m to £30m was blocked at an extraordinary general meeting of sharehold when Pearson voted against.

would readily approve a smaller

# Motor industry trade balance slumps to near £1bn deficit

BY KENNETH GOODING, MOTOR INDUSTRY CORRESPONDENT

THE SERIOUS deterioration in the year, show that the UK's trade in UK's balance of trade in motor industry products continued in the first quarter of this year when the deficit reached nearly £1bn. The adverse balance worsened by C260.1m, or 36.2 per cent compared

with the first three months of 1985, to £978.7m. All sectors of the industry put up weaker performances than in the corresponding period of 1985 but the Society of Motor Manufacturers and Traders (SMMT) said currency

exchange rate changes were mainly to blame by making import prices higher and export receipts lower. The society pointed out that ex-ports to the US, largely invoiced in dollars, suffered from a sterling exchange rate which moved from

\$1.11 in the first quarter of 1985 to \$1.43 in the early part of this year. "As both imports and exports adjust to the realignment of the pound against other currencies, it is to be hoped the balance of trade will improve," the society said.

The statistics, compiled by the society from Customs and Excise figures which have been delayed this Excise figures where they are assembled into the Peykan, that country's best-selling

commercial vehicles, which went into the red for the first time only in 1983, seems destined to go ever deeper into deficit.

The adverse balance on commercial vehicles in the first quarter was 53 per cent worse than that for the

same period last year. Trade in parts, accessories and other motor products, including ag-ricultural tractors, also suffered and worsened by 46.6 per cent com-pared with the 1985 first quarter. The deficit for cars, already the most substantial burden on the

trade performance, was 20 per cent worse in the quarter. The number of cars imported to the UK in the first quarter rose by 1 per cent on the same period of 1985 from 281,743 to 284,256, while car

exports fell by 8 per cent from 62,400 to 57,366. Although built-up car exports by both Austin Rover, the Rover Group (formerly BL) subsidiary, and Jaguar improved, shipments of kits by Peugeot-Talbot UK to Iran -

Source: Society of Motor Manufacturers and Traders from Customs and Excise statistics. car - were substantially down.

Cars

prode Total

Peugeot-Talbot pointed out at the weekend that so far this year only 7,800 kits have been exported to

Programme sponsors are local au-

changes in the rules which have

prevented sponsors from profiting

The Government has decided to

tell the Manpower Services Com-

mission to revise its Community

Programme guidance to allow pri-

vate sector organisations to make

some private gain from schemes, provided there is wider community

for long-term unemployed people.

This decision will be accompan-

ied by the allocation of an addition-

enefit and useful work experience

# Business training for jobless

ment's inner cities initiative, will

anounce details of the plan in a

speech to business leaders in the

north-east city of Middlesbrough - itself one of the eight task force

areas which the Government desig-

The other areas are North Ken-

sington and North Peckham in Lon-

don: Chapeltown, Leeds; Highfields,

BY ALAN PIKE, INDUSTRIAL CORRESPONDENT

progamme designed to capture the entrepreneurial potential of young people in deprived inner city areas will be announced by Mr Kenneth Clarke, Paymaster General, today. The programme, entitled Head Start, will be run in collaboration with the Industrial Society. In its first year it will offer enterprise training to 3,000 young people in the Government's inner city task

force areas. Head Start is intended to give

practical advice and business training to unemployed 18-25-year-olds who display the potential to start their own businesses. Industralists and chambers of commerce in the

task force areas will be urged by the Government to support the pro-Mr Clarke, the Employment Min-

Leicester; Moss Side, Manchester, St Paul's, Bristol; and Handsworth, Birmingham. Head Start will run in all except Manchester and Bir-Mr Clarke will also tell his audi-

nated earlier this year.

ence that the Government intends to relax the restrictions on profitmaking for private sector companies which provide places on the Community Programme for the long-term unemployed.

### al 1,400 Community Programme places in the eight task force areas. US securities firm to join Stock Exchange

from schemes.

DREXEL Burnham Lambert, one of the leading New York securities groups, has announced its intention to join the London Stock Exchange in time for the "Big Bang" changes on October 27.

The move is said to be part of Drexel's international expansion strategy and will allow the firm to expand its market making activities in non-US equities, with an emphasis on the UK. However, Drexel failed to appear

on a preliminary list of stock ex-change equity market makers published earlier this month. The list included only two American securities firms, Merrill Lynch

quested technical facilities for mar- stock exchange's requirements.

ket making and might enter into formal commitments at a later

Only Merrill Lyuch among the US firms has so far joined the stock exchange as a full member. Other firms, such as Drexel and Goldman-Sachs, have held back because membership would involve curbs on their activities in UK securities.

Until the Big Bang, London stock market firms are required to sepa-rate their broking and market-mak-ing activities in domestic securities, creating severe difficulties for US firms, which operate on an integrat-ed basis. Merrill Lynch is the only and Goldman Sachs. But the stock exchange indicated at that time only the complex structhat other New York firms had re- tures needed to comply with the

# Banks on profit growth path

### BY OUR BANKING CORRESPONDENT

(clearing) banks are expected to rack up an increase in their total profits of between 20 and 25 per cent to about £1.4bn in the first half of this year, according to City bank stock analysts.

cause they had been foreshadowed by the forecast which Lloyds made only a few weeks before during its abortive takeover bid for the Standard Chartered Bank.

continue on Thursday with the Mid-

403 264 151 354 185-210 400-445 Range of forecasts from de Zoete &

1985 (£m) 1986

land Bank. Barcleys Bank is due to report on August 7.

costs, and the healthier economic climate should reduce loan losses. On the negative side, the fall in interest rates has squeezed the profits which banks make by lending out the balances on their current accounts on which they pay no interest. More customers are also keeping their money in interest-bearing accounts, which has added to banks' funding costs. The banks' international busi-

ness is also likely to be lacklustre. eport on August 7.

The biggest boost to the banks' in the first half of this year, and

### Pay rising at 'three-times inflation rate'

manual workers are increasing by nearly three times the rate of inflation, according to a survey published today. The latest six monthly national

workers, 6.9 per cent. employment are much better off in there was always enough liquidity

many years. According to the survey, which covered 275,000 employees in 644 i companies, the increase in pay for qualified operative staff in all in- that an otherwise solvent bank can

The companies surveyed in are not readily realisable to meet a cluded many small and medium sudden demand for cash. sized operations, often with no formal union bargaining agreement more openness to UK banking, the The report concludes that this underscores the trend that managements are offering increases on a 27. In its place it has now proposed "need to pay" rather than a "union

demand" basis.

manual workers. Other regional variants show that | rent practice, and I would guess the traditionally lower paid. Yorkshire and north east Midlands areas are showing a movement up the relative pay scale, whereas Stal-fordshire (West Midlands) and north-west of England are showing

continuation or stepping up of the refurbishment programme for existing coal plant, as is happening in the US. But this would fail to provide enough work to maintain the shank, the London stockbrokers. UK manufacturers at their current

Further refurbishment of existfew years, and there is little pros- Mr Cunningnam's view, be very atpect of recovery for several years at tractive for the Government beechoes the gloomy conclusions of a a satisfactory replacement for new recent report to the National Eco-pomic Development Council fore-would not load the manufacturers'

inquiry. When it ended in April last year it had been running for 27 months. The inquiry inspector's rethe next general election but is un-likely to receive approval even after S In the face of severe criticism by MPs, Britain's nuclear industry has Despite reports that the Central promised to try to overcome public

Electricity Generating Board is con-sidering two new large coal-fired solutions to the disposal of low-level stations in southern England, he be-nuclear waste.

THE SIZEWELL B nuclear power Sizewell would be built for at least way to create a public mood which station on the east coast of England five years.

The "most likely outcome" is a ject of disposal of long-lived nuclear

cause of the current low cost of fossil fuel. However, this would not be

to be imported because of lack of to Britain's longest-running public

so called club money.

funds if they needed them. Without

banking crisis because its assets

But as part of its plan to bring

Bank of England decided 18 months

ago that club money would have to

go before the Big Bang on October

new arrangements to preserve li-

quidity, and these were contained

The immediate reaction of most

sensible and will be no more oner-

ous than the self-imposed liquidity

rules which all banks have. "Gen-

erally, they are in line with our cur-

demanded will be well within what

we already observe," said Mr Rob-

ert Close, assistant treasurer of

week.

Barclays Bank.

diation discharges.

Response to this report yesterday came on behalf of the electricity generating boards in England and

Waste Executive (Nirex).

The statement came in the industry's final response to House of Commons' environment committee, which last March described Brit-

Scotland, British Nuclear Fuels (which operates Sellafield), the UK

demanded strict new controls on ra-The MPs' report said discharges from the Sellafield reprocessing plant in Cumbria, north-west Eng-land, has turned the Irish Sea into the most radioactive stretch of wa-

This response, which followed interim comments on aspects of the select committee's report, made clear that the industry wished to continue disposing of low-level waste as soon as possible rather

ain's management of nuclear waste

as amateurish and haphazard, and

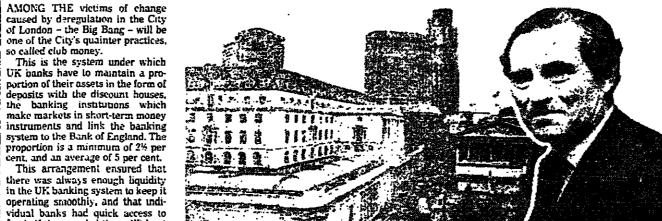
Atomic Energy Authority and the

areas which compete with the FT and its publishing interests."

Lord Blakenham, chairman of Pearson, said the FT did not believe that the Economist's ability to grow in the interests of all shareholders required such an rediate increase, although it

### The industry sees this as the only than continuing to store it. David Lascelles explains why the City's club money system must end

Bank changes the liquidity rules



tance of good liquidity management, and its impact on bank costs. The paper defines the assets that banks must have for liquidity purposes (cash, bank bills etc) and proposes various formulae for working out how much banks should hold. It also proposes that the 11 major commercial banks be the main holders of liquidity, with other banks either holding their own di-

deposits with a clearer. The same formula will be applied bankers is that the proposals are to all banks regardless of their size or balance sheet structure, largely because the maintenance of a liquid banking system is considered to be a cost which all banks must share. that the paper concerns only ster-Even so, individual banks will have that the amounts of liquidity being to discuss their liquidity management with the Bank. One concern among bankers is

that the creation of a two-tier sys-

rectly, or indirectly in the form of

Sir Robin Leigh-Pemberton, Governor of the Bank of England offer deposits to clearers, they will sors to decide at an international have to state whether these are for level through the Basic-based liquidity purposes or not. If they Cooke Committee which tries to coare, they are likely to be quoted a ordinate banking supervision be lower rate because the clearing tween different countri bank will, under the Bank's proposed rules, have to match these de- actively manage their non-sterling posits with liquid assets of its own liquidity by holding certificates of deposit and Government bills deon a one-for-one basis.

The Bank expects that the mar-

ket will find its own pricing for

these deposits. But if non-clearing

banks get a poor rate for their li-

die out quite quickly. Some bankers have pointed out ance sheets to make them look ling liquidity despite the fact that is beyond its remit to say what non-

However, larger banks already

nominated in other currencies. Other points of the paper which bankers are likely to raise with the Bank concern the definitions of liquidity deposits, they may prefer to quid assets, and the need for a forhold them themselves. In which mula that is as simple as possible. I case indirect liquidity holdings may is quite easy for unscrupulous banks to "window dress" their bal-

more liquid than they really are. The end of club money will also most major banks have large liabili-ties in other currencies, particularly plentiful supply of cheap funds the dollar. The Bank's view is that it from the banks, which could affect their profits. But the houses claim tem of clearing and other banks sterling assets are of sufficiently that club money had ceased to be as Even so the paper is being closely could cause complications in the scrutinised because of the impormarket. When non-clearing banks that is something for bank supervi
was before,

the largest of the four clearers and continue on Thursday with the Mid-

E LISTER AND THE PROPERTY OF T

THE UK's big four commercial

The bank's interim reporting season got under way on Friday when Lloyds Bank reported a 27 per cent rise to £335m. However, these figures contained no surprises be-

Fresh results begin tomorrow with National Westminster Bank,

Greenwell Montagu, † Actual

earnings is coming from their do-other problems sectors like energy, shipping and sovereign deht will shipping and sovereign debt will there has been strong demand both for consumer loans and mortgages.

The decline in inflation has also doubtful debts may ease, but not make against much.

# BT cuts cost of

BRITISH TELECOM (BT) is to cut

The price cuts are on BT's Sat-

Price cuts range from 8 to 13 per

will be discounts of 5 per cent and executive of the business division at

tional Communications Union of treating its shareholders more favourably than its staff. Replying to a pay offer in which BT insists on changes in working practices, the in an infinitely more favourable

Indefinite delay forecast for Sizewell B nuclear station

also no early prospect of new orders for coal-fired stations, says a gloomy report on the outlook for Britain's power plant suppliers.
The study, by Laing and Cruickgives a warning that UK generating size. equipment makers will progres-

work over the next least after that" Mr Nick Cunningham, its author, casting further contraction of the industry and the risk that when or-

UK capacity to supply it.
Sizewell, writes Mr Cunningham. will not only be deferred until after

lieves that no such alternative to

By Helen Hague BASIC PAY levels of clerical and

survey carried out by Regional Reward Surveys shows that annual increases for clerical staff were 7.6 per cent and those for manual! It argues that with the latest Retail Price Index at 2.5 per cent cleri-cal and "operative" staff in full time

real terms than they have been for

good liquidity, there is a danger dustries is a reflection of skill shortget into trouble and trigger a major age developing in many areas.

The survey shows that the average basic pay for all grades of pri ; in a paper released for debate last vate sector office staff is £5,921 (£114 a week), and for operative staff £6,202 (£119 a week). Pay in the London area is 35 per cent above the national average for clerical staff and 11 per cent above for

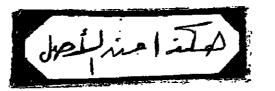
The Sizewell proposals for a US-

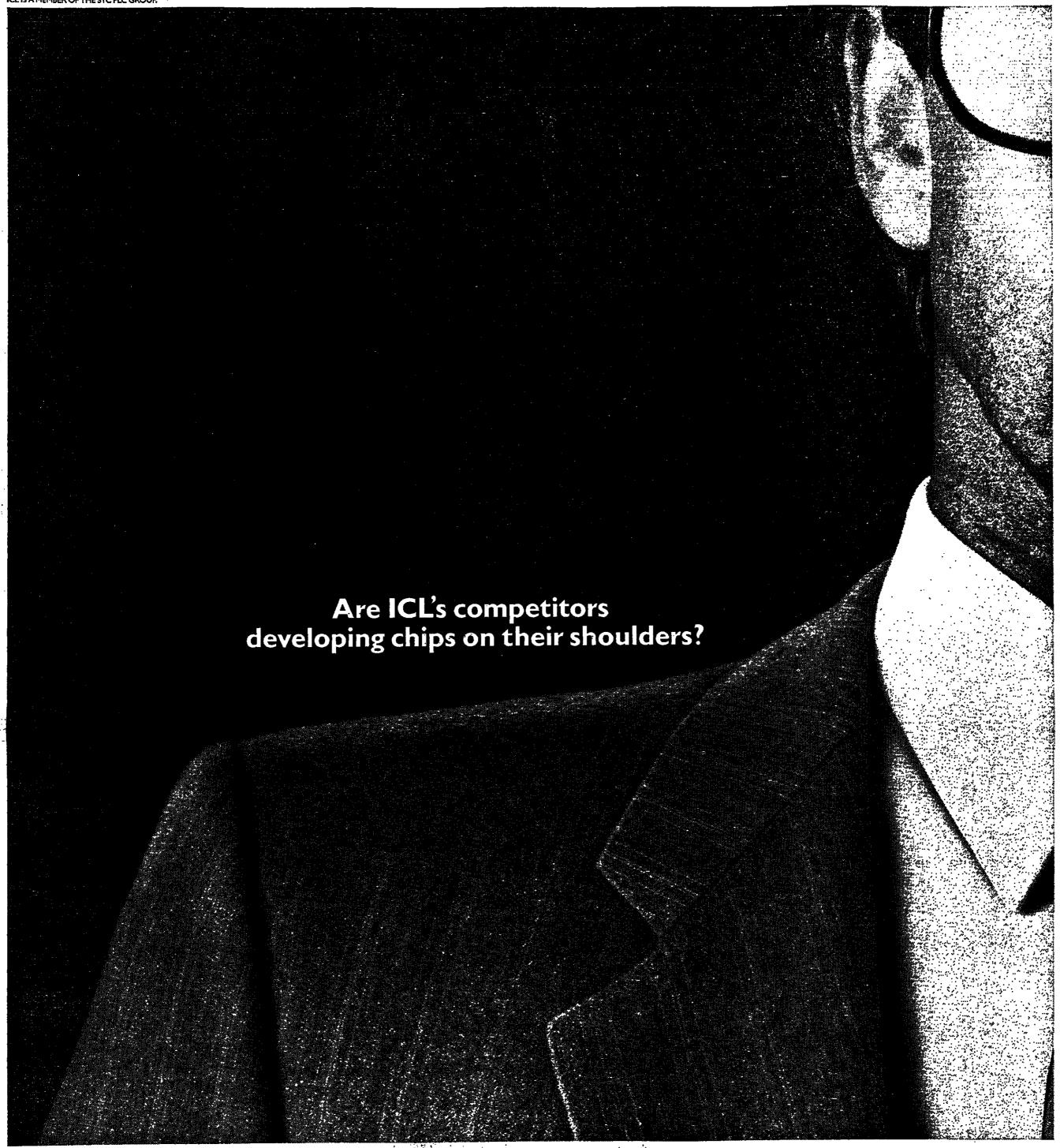
ders do revive equipment will have style pressurised water reactor led



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orm of





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A FINANCIAL TIMES SURVEY

-ARENA FOR ECONOMIC GROWTH -

Publication date: 20 October 1986 Copy date: 22 September 1986

The end of the Vietnam War in 1975 saw the coming of age of a new economic and political region. grouped around the rim of the Pacific Ocean. Many of the nations in the region, strategically located on trade routes vital to both East and West, have enjoyed unprecedented economic vitality. In the future, the Pacific Rim is likely to play an even more important role in the development of the global economy, signalling an important tilt in power and continuing to spearhead economic reform and technical innovation.

The survey will be published one month before the prestigious PACRIM '86 symposium which is being held in Perth from 16-19 November 1986. The importance of this event is reflected by the status of the speakers and has already ensured a maximum audience of Chief Executives, Managing Directors and other professionals from the region itself, and also from around the world.

Promotional support for this survey includes a mailing of the survey to all speakers and delegates attending PACRIM '86 before they leave for Perth. Copies of the survey will also be distributed at the symposium.

For more information about advertising in this survey and a copy of the synopsis, contact:

Ron Mann

Financial Times, Bracken House. 10 Cannon Street, London EC4P 4BY Tel: 01-248 8000 ext 3595 Telex: 885033 FINTIM G

Survey subject to change at the discretion of the Editor

# **COMPUTER INDUSTRY**

Peter Bruce reports on a West German group's success

# Nixdorf's obsession with quality

The company's total sales have risen at an average 21 per cent a year since 1980. Revenue from outside Germany has grown an average 52.6 per cent in the same time. By the end of next year, Nixdorf will have doubled its DM 2.7bn (\$1.3bn) 1983 turnover.

The value of the company's assets has doubled to DM 4bn in the last five years and financin the last five years and infancing this growth has seemed to
be almost effortless. In 1984
Nixdorf went public, raising
around DM 550m. Last year it
through a rights issue and since
last June Mr Luft has had in his pocket permission from shareholders to raise another DM 15bn at any time in the next five years.

Nixdorf's strengths have attracted sceptics among the hundreds of analysts who specialise in the computer industry. Until now it has been fashionable to write the computer of pany off as rather bright but destined probably by virtue of its own size and the size of the competition to remain tied up in its traditional domestic and European markets.

Now even that may no longer be true. Nixdorf is about to announce that it has won a \$100m order for its computers stoom order for its computers from Montgomery Ward, one of the biggest retail chains in the US. Not only will the order transform the company's profile in the huge US computer market, of which it has only a minute share, but the order will mark the end of the first direct clash with IBM on its bome territory in a sector which Nixterritory in a sector which Nix-dorf regards as one of its specialities.

In many ways this is extraordinary. Heinz Nixdorf, Nixdorf's founder and chairman,
died suddenly in March this
year. It would have been quite
reasonable to expect of a young
West German company that it
would at least pause for breath
(or at worst begin to fall apart)
after the passing of such a
central figure. central figure.

But his successors have ploughed on at the same frenetic pace he used to set and a mere five minutes inside the

KLAUS LUFT has developed a sort of bemused and very disarming facial arrangement which he uses to answer questions about how much longer Nixdorf, the West German computer group that he runs, can continue to grow so quickly.

The company's total sales group's Paderborn headquarters are enough to convince an observer that this is not just another West German office.

The people in it are very friendly and almost casual with each other. Young, relaxed and confident, Mr Luft, 44, and his deputy, Mr Arno Bohn, 38, fit perfectly into the mood. fit perfectly into the mood, although nearly 24,000 employ-ees around the world depend on

them also being very smart. -It is part of a corporate legacy left by Heinz Nixdorf. The company is so highly decentralised, says one London stockbroker, "that bits keep breaking off like amocha." Employees are consumed to pure

breaking off like amocha." Employees are encouraged to put their own ideas into practice. "Everyone has a target," says the analyst.

"The key to the success of our business is our human resources," says Mr Luft, who has spent most of his working life at Nixdorf. "You have to develop your own corporate culture. We invest a lot in young people to make them young people to make them ready to manage growth. About 1,000 young job seekers have already been taken on in Germany this year alone.

This "culture," say Luft and Bohn, also operates as a defence mechanism, making it almost impossible to merge Nixdorf (even if the two majority-owning charitable trusts agreed) with something foreign agreed) with something foreign to it. It implies that the company's independence is, at least among the employees, taken for granted despite periodic rumours to the contrary. "How can you have such a culture when you averge?" asks the chairman.

People not that close to, or whimsical about, the company argue that Nixdorf's success has more basic roots. Unusually for

more basic roots. Unusually for a computer manufacturer, they say, Nixdorf is not too pre-occupied with fancy pieces of technology. The company is market and sales led and it makes a big effort in service and back-up.

Nixdorf's strategy has been to put itself about as a supplier of total computer of total computer systems— which it rather grandly calls "solutions"—to carefully tar-"solutions"—to carefully targeted and scrupplously tended market niches. The company is at its strongest among small business users, retailers and banks. Considering that the group makes only 10 per cent of its sales outside Europe, Mr. Bohn is able to claim that "we don't see saturation in our markets" with some instificawith some justifica-



success is "our human re-SOURCES

In this respect, the new US order could not have served the Germans better. It goes to a niche in which Nixdorf has always claimed to be strong, making it appear to be a company that knows where it is going in an often confused and fatalistic industry.

Nixdorf already has mo than 5,000 terminals in the US and it has been in that market and it has been in that market for more than 18 years. But instead of doing in America what it was doing in Europe, it was selling "little boxes" to use Arno Bohm's phrase — pieces of stand-alone technology. The effort to break away from conventional US industry practice. and sell systems is very recent, making the \$100m order, its biggest ever in the US, that

There should be no comfort, then, for competitors in the US or Europe in Nizdor's commitment to niche marketing. It did not stop the company from entering the telecom business in 1982 with private switching systems. By last year, it had claimed 10 per cent of the German PABK market against tough oldtimers like Siemens and SEL. There are niches everywhere, as Nixdorf has proved by becoming the biggest supplier of computer equipment to banks in Europe.

Luft and Rohn, consummate salesmen and incapable, it seems, of even contemplating failure, have begun to work

industry is, for instance, a new niche for which Nixdorf has beniche for which Nizdorf has begun to market a "solution." The company has already found a launch customer in Asstria. Factory automation is also being sized up, an unnerving prospect for Stemens, down in Munick, which has until now been able to count computer controls for machine tools in Germany as very much its own preserve.

preserve. Executives in Siemens' public switching division have siso begun to east faintly pervous giances at Nixdorf. Once a near monopoly supplier of public exchanges to the Bundespost exchanges to the suspension, Siemens now has to there contracts with SEL. But might Nixdorf not be an ideal patiner for a new consortium, be it foreign or German, trying to break into German public telecommunications? The Bun-despost plans to invest in a new country wide digital network. first narrow then broadband, in the next 10 years most of which, it seems now, will go to just two contractors.

Mr Luft will be drawn only half-way. "Our place is in private systems," he says, looking not quite sincere, "but there is always the temptation to do something else." Even the scepticism about mergers and synergy disappears, "It could be different in public switching," he concedes. Rindari though is still small

hinder; though is still small beer in the world computer industry. Turnover last year of DM 4.50n and net profits of DM 172m are almost loose thange measured against Siemen's DM 54.60n and DM 1.50n, or IBM's \$500n and \$11.6bm (pre-tax) in the same

Despite this, or perhaps because of it, the company is liked in the equity markets. The stock it floated in Frankfurt at DM 380 two years ago is today DM 200 more expensive. It is now quoted in three-Swiss bourses and is planning listings in Vienna and Paris. London, says Mr Luft, will be approached as soon as the EEC

harmonises accounting rules.

The listings outside Germany probably have more to do with publicity than with a need for funds but the welcome in London will be, all being well people," enthuses Mr Derek Bainbridge, Warburg Securities electronics expert, obsessed with quality."

# **APPOINTMENTS**

# Managing director for HTV Group

HTV GROUP has appointed Mr Tim Knowles to the new post of managing director from August I. The creation of this new post follows the appointment of Sir Melvya Rosser as chairman at the beginning of 1986. The late Lord Barlech held the dual positions of chairman and chief executive until his death in January 1985. Mr Knowles joined HTV Limited in 1969. In 1975 he was appointed financial director of HTV Ltd and became assistant managing director in 1981, a post which he will now relinquish. He was also appointed financial director of HTV Group when the company was formed on the restructure of the HTV group in 1976 and for the last eight years has been commercial/financial director. He has been chairman of Dataday since 1983 and is a director of Frost & Reed (Holdings), both of which are subsidiaries of HTV Group.

TELFOS HOLDINGS has appointed Mr J. W. Malins managing director. He has resigned from the board of The Chillington Corporation.

Ms Jean Davis has joined CHEMICAL BANK INTER-NATIONAL as an associate director—corporate finance in the North American Group with responsibilities for coverage of US names. Ms Davis was previously with Chase Manhattan on the securities side.

Mr Eric Cater has joolned the board of WOLD as financial director from August 26. He joins from Citicorp Venture Capital where he was a director with special responsibility for finance, administration, and the making and monitoring of venture capital investments.

Sir Anthony Joilife has been appointed chairman of C. & W. WALKER HOLDINGS, succeed-WALKER HOLDINGS, succeeding Mr Bernard Madden. Sir Anthony, former senior partner with Jolliffe Cork Ingram, formed with Mr John Pither the engineering concern Multiple Industries Group in 1982—which subsequently merged with C. & W. Walker in 1983. Sir Anthony is chalman of the Gauseway Development Capital Fund, a director of Paccar UK, Fogarty and Japan Air Lines in the UK.

AUSTIN REED has made the following appointments: Mr Graham G. Smith is promoted to men's merchandise director and appointed a director of Austin Reed Ltd. the retail division, on August 18. Mr Peter M. Doano is joining Chester Barrie and Austin Feed Manufacturing as production director designate production director designate from August 4 and will be



Mr Tim Knowles, managing director of HTV Group

appointed a director of both companies. Mr Doano's most tecent position was as chief executive of Lawtex Clothing, prior to which he was a senior consultant with Kurt Salmon. Mr Colin Wilson is to be appointed marketing director of Austin Reed Manufacturing with effect from August 18. Mr Wilson has been a director of Aquascutum's wholesale division for the past six years and was previously with Burberry. Mr Hugh W. McClure will become managing director designate of J. A. Robertson & Sons (Dumfries) the group's knitwear company, as from October 1. Mr McClure will be joining from Kintyre Knitwear (Scotland), where he is chief executive.

Mr John Glaves has been appointed regional director for TARMAC ROADSTONE NORTH WEST, a major sector of Tarmac's UK quarring and blacktop operations. Mr Glaves replaces Mr Alan Rahilly, who has now taken up a senior appointment overseas within the quarry products division. Until the beginning of July, Mr Glaves was director of Tarmac Road-stone's production and transport in the east Midlands company.

Mr Christopher Mackrell has been appointed commercial director of TELFORD DEVELOP-MENT CORPORATION. He succeeds Mr Michael Morgan, who was recently appointed general manager.

Mr Alan F. King, manager and secretary of the POLICE MUTUAL ASSURANCE SOC, will be retiring at the end of November. He will be succeeded by the present deputy manager. by the present deputy manager, Mr Peter J. Sharpe, Mr Sharpe joined the society as assistant secretary from the Norwich Union in 1967 and became deputy manager in 1975.

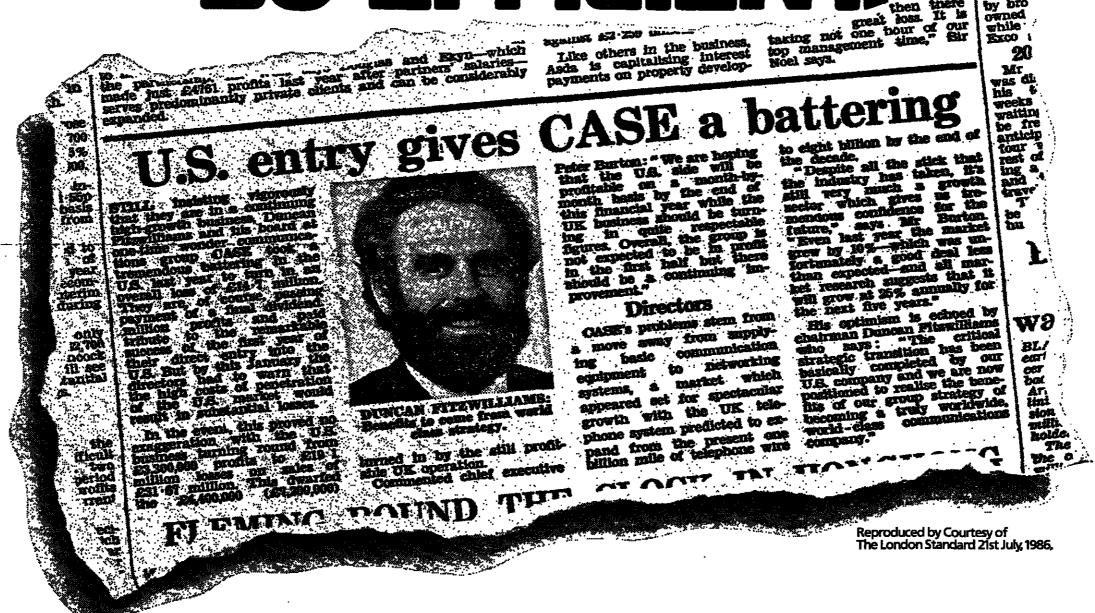
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| Cedar Holdings 11                      | PK Finans, Intl (UK) 1814                           |
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C4SE THE BEST IS YET TO COME.

ŢŢ

Henry Mintzberg arrived by bicycle over the 100 km of hills from Chamonix. Passing motorists probably took him for a small-town lawyer on an outdoor holiday. Even off his bike, the slight figure with the bald head and thin-rimmed glasses scarcely looks like a management pro-fessor who attracts high-powered

audiences all over the western

The 46-year-old Canadian's The 46-year-old Canadian's approach to management is equally unorthodox. He made his name in 1975 with a research study published by the Harvard Business Review under the title "The Manager's Job: Folklore and Fact." It is still among the best-read articles the review has printed in its long history.

In doing the research Mintzberg broke convention by

In doing the research Mintzberg broke convention by going out and observing at first hand what managers were doing. Almost all his predecessors had written from an ivory-tower standpoint. They peered at executive work from great intellectual height, relying on abstract reason to tell great intellectual height, relying on abstract reason to tell them what managers did for their living. The descriptions resulting from their "top-down" thinking were typically words like "planning, organising, co-ordinating and controlling."

The Canadian dismissed the ivory-tower explanations as

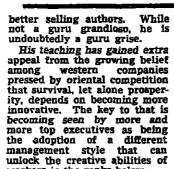
the canadian dismissed the ivory-tower explanations as folklore, saying his own "bottom-up" researchers showed that they "do not describe the actual work of managers at all." The fact was that accountract into empirical of that executives' jobs consist of a bulging rag-bag of different tasks, of which half are done inside 10 minutes and only a

tenth take over an hour. Thereafter the Professor of Management at McGill University in Montreal went on to study the structures of organisations, how power is used in them, and business strategies. In every case his focus has been on grassroots events. Where management performance is concerned, he thinks, the way things really happen on the ground is more important than the way they are supposed to happen according to organisation

charts and policy plans. By the stupendous standards of books such as In Search of Excellence and The One Minute Manager, Mintzberg's weightier tomes have sold modestly. His most popular book, The Nature of Managerial Work, has recently topped 60,000 and has been translated into five foreign languages, including Chinese. But his work, and even more so the bottom-up approach he adopted, have greatly influenced The guru factor

# The pundit who shuns ivory towers

Michael Dixon talks to Henry Mintzberg, a free-wheeling Canadian who has acquired a cult following among his peers



workers in the ranks below. workers in the ranks below.

Take for example a typical comment by a member of the audience at the strategy seminar in Geneva, which was organised by Management Centre Europe. "Virtually everyone here is preoccupied by the need to develop new management styles," said Crispin Brown, director of the French operations of the Ingersoil Engineers consultancy. "We all see hope in Mintzberg's message that what goes on at the grassroots is often a on at the grassroots is often a more productive resource than thinking in top-floor

While the McGill professor's influence on managers is in a down-to-earth direction, however, the thinking which lies behind his teaching is distinctly cerebral, He himself has been greatly influenced for instance, by the brain research of the American Professor Roger Sperry, which won a Nobel Prize for medicine in 1981. Sperry found that the brain is divided into two halves, each having a different function in enabling people to cope with complex reality.

complex as a whole, building the details into a rounded picture much as the eye takes in a landscape. It is the half which is thought to underpin artistic and other essentially "synthesising" activities including engineering and industrial design.

The left half's function is to analyse the complex into various component parts. It then organises them in conventionally rational sequences, as exempli-fied by numerical equations and

Although Mintzberg's own work reaches the public in the form of considered sentences, they initially come into his mind less as strings of words than as connected visual images. So he operates primarily from the right side of the brain. And his research convinces him that the same is true of the bulk of people who actively manage shop- and office-floors, as distinct from sitting in back rooms and thinking about it.

Even at the highest level, he denies the orthodox view that good management starts with logical analysis and forethought. He told the Geneva seminar what he has been arguing for years, that a successful business strategy is rarely if ever thought up in advance by executives. It comes into being for the most part by accident, and the man-ager's role is to recognise it as it emerges and turn it to profit. Far from being devisers of strategies, executives are first and foremost diviners of them. Moreover, while emphasising

ROLLED STEEL

ness of some particular line of action that such left side of the brain activities can fully come to their 2id.

One of his favourite illustra-

tions is the way Honda took over the American motor-cycle market with its mini-bikes in the 1950s, so shattering most western manufacturers, including those in Britain.

A management consultant's report commissioned soon afterreport commissioned soon afterwards for the benefit of the British industry portrayed the Japanese company's US triumph as a model of scientific research, planning and control. The nub of the report was that for years in advance Honda had been building a low-cost springboard for its mini-bike invasion by develoning volume sales in developing volume sales in Japan's domestic market. Then, having got down to a price at which it had worked out that Americans would buy, the com-pany struck in force.

interviewed later by the American writer Richard Pascale, they told a different

A measure of their market research is that they arrived in the US just after its annual motor-cycle buying season had ended. Mr Honda sent them there to sell, not the small bikes, but the company's most powerful machines, which he expected to appeal to Americans ecause their handlebars were shaped like the eyebrows of Buddha."

Having little US currency, the taying a different function in that rigorous analysis and planassault party rented cheap
ning are also essential, Mintzcomplex reality.

The right half deals with the agers have sensed the fruitful- the floor. Two of them even

slept on it. With great effort they managed to sell a few big bikes, only to have them angrily returned. Their machinery, while robust enough for the average Japanese, was too fragile for hard-riding Americans. Honda's engineers took months to solve the problems.

Meanwhile the five stayed in

places with little to do but talk. That may be why an alternative sales approach evenalternative sales approach even-tually occurred to them.

To keep down costs they travelled around on Honda mini-bikes, which US citizens frequently came up and admired. Might that not mean Americans would buy them?
The question was put to headquarters which, after a good
deal of resistance, told the five
to have a try. The failing
assault soon became virtually
an occupation.

"Once the sales took off When the five men who Honda developed them with accomplished the invasion were first-class planning," Mintzberg interviewed later by the told the seminar. "But the successful strategy just evolved from the muddled grassroots effort of those five men on the ground. The only strategic thing top management did was let them get on with the job. It didn't keep threatening to scrap the project unless they showed me return very soon.
"How many western managements would give such trusting backing? How many western export teams would happily sweep the floor?"

Although the parable clearly impressed the audience, several of them couldly protested that

of them quickly protested that they had gone to Geneva seeking something more prac-tically useful.

Management abstracts

accounts. R. Burn in Accountancy Age (UK), May 15 1986 († page) Explains the thinking behind

the simplified design of the Mersey Health Authority's published financial review of 1984-85 — combining pictures and text, with a summarising pull-out, and using an informal, jargon-free, textual approach to generate and maintain public

international scene. K. Volder-in De Accountant (Nether-lands). April 1986 (6 pages) in Dutch. English version

available.

This paper (original title:
"What can Dutch consultants learn from others") turns out to be a review of management consultancy in several countries: did you know, eg, how many inhabitants correspond to one consultant in the UK? The answer is 11,000 (compared to 3,000 in France and 56,000 in Italy). If this sort of informa-tion interests you, read this paper, Also contains a list of questions Dutch consultants should ask themselves.

Entering growth markets. S. P. Schnaars in Business Horl-zons (US). March/April 1986

me is how. How, for instance, do I get my executive colleagues to take the point and act on it—particularly middle-management, where the worst inertia lies?" With a host of examples, examines the relative merits of entry at the pioneering, early or late stages by companies into growth consumer markets; looks at arguments for and looks at arguments for and against each entry stage and produces statistics of cases where pioneers maintained dominant positions, lost out to later entrants, and failed to survive in the market. Concludes that if you are going to enter, enter big: companies with stronger marketing, entering late, will usually win: the ing late, will usually win; the "ripeness" of the market affects the success of entry timing; and dominantly, no one timing strategy proves best in

all instances.

The state of strategic planning.
R. N. Paul and J. W. Taylor in Business (US), Jan/March 1986 (7 pages).

Reports, from a survey of Fortune 500 companies, that strategic planning in major US industrial companies is not nearly as extensive as the popular business press and academic journals might suggest; argues that what are regarded as signs of death in strategic planning are no more than growing pains. Three prescriptions for advertising elutter. M. L. Ray & P. H. Webb in Journal of Advertising Research (US), Feb/ products which don't yet exist. You don't get that creative spark You don't get that creative spark from the system."

Probably the best thing top managers could do was fill their active executive jobs with skilled right side of the brain operators who had shown they had enough sense of the company's business and character to keep it moving forward in a balanced way. Not until then could company chiefs use the maps provided by analysis and suchlike in steering precisely where they found it best to go. where they found it best to go.
Previous articles in this
series appeared on June 30,
July 2, 7, 14 and 21:

shorter ads) in TV advertising. Research shows the need to review what is already known about how advertising works. do systematic research of effects Cutting largon in public and take vigorous action, inter alia, in making longer commercials which force respondents to think about how products fit

into their lives.
Strategic marketing options, P. Wright in Business Horizons (US), March/April 1986 (6

pages)
Describes how three companies—Coca-Gola, RCA and Rockford Headed Products (fasteners) — responded to difficulties from changing Management consultancy: the competitive environments by choosing from three available strategic options. RCA chose least-cost, Coco-Cola differentation (convincing consumers that its products were of superior quality) and Rockford adopted

(US), Jan/March 1986 (8)

pages) Discusses the effect of bad publicity on a product; suggests that there are four responses a company can make: instinctive reaction, stonewalling, forma compliance, and seizing the initiative; suggests that, for all but small, nagging situations, seizing the initiative may produce the best results, not least because it has the effect of diffusing criticism across the whole industry. Office automation benefits are

heading our way. D. Tapscott in Datamation (US), March

15 1988 (6 pages)
Argues that the first two
phases of OA—word processing and personal computing—were oversold and claims that only by integrating all OA facilities within a work group will real benefits be achieved; describes the experiences and aspirations of Citibank Canada in pursu-ing this goal, mentioning pro-

ducts and methods.

Smoking—rights and needs. D.

Tong in Facilities (UK),

March 1986 (1½ pages)

Discusses the conflicting
issues raised by smokers and non-smokers in office situations; suggests that there is increas-

ing pressure on personnel and facilities managers to find a solution to the views and in-terests of all employees; outlines some ways of implement-ing a smoking policy, ranging from "opt-in" schemes to total bans.

ing clutter. M. L. Ray & P. H.

Webb in Journal of Advertising Research (US). Feb/
March 1986 (8½ pages)
Suggests corrective action is needed to cope with the effects order? Itom Anbar Anbar Management Publications. Licansed copies of the original structure in the effects of the control o

Brazil's steel industry

# The skeleton comes out of the cupboard

burden of debt, through debt-for-equity swaps financed by the new National Development Fund.

The decirity is stated in the state of sider control of sider co

learne to seventh today, and despite record production and Siderbras argues, it could be export levels and rising capamaking a 20 per cent annual city, the state steel sector is an profit on this year's expected industrial skeleton which can output of some 22.5m tonnes of no longer be kept in the cup-

By the standards of the pain-ful rationalisation now nearing The drive to completion in Western Europe's have been ful rationalisation now nearing completion in Western Europe's steel sector, many Brazilian producers—though by no means all of 1979 to 1985 had not insisted

six years behind schedule and were agreed, costing \$0.25n (more than With the f double the project's original budget), is itself a symptom, not a cause of the malaise. A combination of the world recesbottlenecks created by the over- sion that had seen Brazil transmanned and inefficient state formed from an importer of steel holding company, Sider- around 4m tonnes in 1974 to a

focused on Siderbras has level as demand grows by an raised the pressure for a big estimated 12 per cent.

By Ivo Dawnay in Rio de Janeiro

THE PRESIDENTIAL inauguration last week of the Acominas steel plant in Brazil's mining heartland of Minas Gerais would, on the face of it, appear a cause for celebrating. After years of delays and soaring costs, the plant is finally coming enstream.

The earlier announcement by the first plant is clear the cruzado plan.

The earlier announcement by the first plant it is clear. regions the plant is maily coming onstream.

The cordier announcement by
President Jose Sarney of a
radical new development plan \$15.6bn in borrowings is no
will have added further
grounds for rejoicing. The plan
holds out the promise of significant relief for the steel ing and \$7.5bn from government sources now earlief.

But none of this masks the fact that the Brazilian steel industry has long been regarded as one of the public sector's worst black spots. Despite climbing from nineteenth in the 1970 world steel producers' backs to sweeth redwards. Amaro Lanari, the company's president, pointed out in a recent public debate, "financing expenses now equal 47 per cent of the total value of sales . . . a fact that forms the basis for accusations of dumping made by foreign competitors."

Without the debt repoblem crude steel. This claim tends to elicit scant sympathy from

-are plagued by very serious on control of flat product prices under rules requiring proofs of The Acominas plant, at least rising costs before increases

With the full weight of the recession, average delays on construction programmes reached seven years. Consumption fell 30 per cent in three

bras—can be held to account for many of the plant's costly delays.

But the spotlight which the new rolls and shapes mill has too be restored to the 1980 to allow a further Cz 7.3bn too be spent by Sider-level on Sid

overhaul of the industry.

The central problem for the government's pricing policy cost it \$5bn, delayed production government, locked in a gruelling day-to-day struggle with
indationary pressures, is how
to clean up the steel industry without increasing unrealistically low product prices.

cost it \$5bn, delayed production have had their investment budgets pared.

Now the Government has unto clean up the steel intionary effects and the movements of the yen against the
restructuring package intended to resolve the industry's debt

locked in a gruellaw their investment plants. Outdated furnaces, and Siderbras is the high transport costs for iron ore one of the put and coal are less easily tackled.

In January, Consider, the efficient, ow restructuring package intended to resolve the industry's debt

ladustry watchdog, calculated furnaces, and Siderbras is the high transport costs for iron ore one of the put and coal are less easily tackled.

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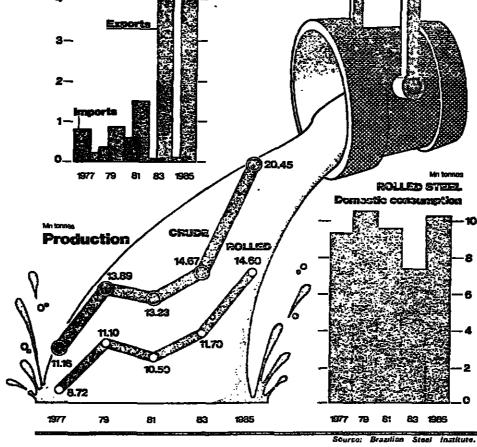
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In January, Consider, the efficient, or resolve the industry's debt ladustry watchdog, calculated furnaces, and siderbras is the put and coal are less easily tackled.

In January, Consider, the efficient, or resolve the industry's debt ladustry watchdog, calculated furnaces, and siderbras is the put and coal are less easily tackled.



At last, however, projects at problem, with government to the five main producer com-panies within the group are all nearing completion and should be finished by 198. Acominas, itself, should be fully on stream by the end of next year, pro-ducing some 2m tonnes of steel annually, mainly for the con-struction and railway industries. Usiminas, its rival in Minas Gerais with an output of 3.5m tonnes, is completed, as is the bulk of Sao Paulo state's 3.5m tonne Cosipa mill. The third stage of CSN's Volta Redonda programme should finish this combination of the world recestion fell 30 per cent in three year, and the Tubarao plant in lieve to sion and political indecisiveness of past governments—rather than the netorious bureaucratic than the netorious than the netor crown—is producing a highly profitable 3m tonnes of slabs

for export yearly,
To ensure the conclusion of (\$527m) to be spent by Sider-bras on investment over the next 18 months, a 41 per cent increase on last year at a time when other state companies have had their investment

take up an equity stake in Siderbras in place of a large For Siderbras officials, this kind of package is only half the battle. "If the company is not allowed to have real prices, the issue will be transferred again to the future. At the moment, with the Cruzado plan, a realistic price rise just isn't on," says the senior industry executive. Even if the government's

magic wand can resolve this highly sensitive political problem, there are many who be-lieve that fundamental weak-nesses in the Brazilian industry Many foreign steel analysts, while almost universally approv-

ing of the Tubarao plant with its well integrated coal deliveries and good port facilities, believe that older companies like CSN and Cosipa have fundamental flaws. Weaknesses like overmanning

and heavy handed bureaucracy can be ironed out as the government presses to introduce foreign sales?
more competition between The surest

that 1986 production should be sufficient to meet internal needs while maintaining export portion of the company's debt. sales of 38 per cent of output. For Siderbras officials, this or 7m tonnes, worth some kind of package is only half the \$1.6bn. The industry is less

There is considerable concern

that if demand continues at its

present 11 per cent per annum growth rate, Brazil's hard won

share of the world market could be threatened. "We think exports at the moment are a little high," Mr Rudolph Buhler, of the Brazilian Steel Institute, said.

"We don't actually want a larger share of the world market, but we do want to hang on to what we've got. If the domestic market's growth con-tinues at the current rate, we are going to need new

capacity."

Similarly, if Siderbras wins the full 34 per cent price rise it claims is essential to allow for profits—a highly improbable for profits—a highly improbable in the short-term—

a i per cent jobbers' turn plus a i broker's commission. In the

The surest prediction for Siderbras is that it will remain one of the public sector's most worrysome black spots—in-efficient, overmanned and bureaucratic-for quite some

# Strangers at the gilt-edged gate

By Barry Riley

MORE than 100 bond fund for activity in the gilt-edged managers taken by Phillips and market has just been removed. Drew for a promotional trip on the Orient Express to Leeds Castle in Kent one evening last week might have concluded that the venue, however elegant, was an exercise in nostalgia for one of the leading gilt-edged firms. Come Big Bang, the most around the gilt-edged market will be drained, and the battlements will be torn down. The

"You've certainly put the finishing touch to convincing me that we need to let light into our management to encourage initiative right through," said

a chief of a European group.
"But what I need you to tell

Whereupon the McGill Uni-

versity professor showed his academic Achilles heel. He did

not know what companies should do in the future to make

themselves more innovative; he knew only how it looked to

have been done in the past by the handful of companies he

All he could say was that successful innovation was un-

likely to occur often under managements obsessed with left

side of the brain activities such as comprehensive planning.
"Even good market research does not create markets for

had studied.

fearsome hand-to-hand fighting that could ensue has already been the subject of much debate and nervous calculation. Last Tuesday, Union Discount became the second of the original 29 market makers

approved by the Bank of England to withdraw, muttering England to withdraw, muttering that the priviliges did not seem to compensate for the obligations. Market fingers are being pointed at two other possible deserters. But the major combatants, nearly half of them in foreign ownership, are all certain to stick to their guns. Their enthusiasm is, at first sight, a little odd. The UK sterling Government bond market is not particularly large by global standards: it is capitalised at some \$189m, against more than \$1,000bn for US Treasury bonds. The Eurobond market, on the

gilt-edged market's doorstep, is worth over \$500bp, and turnover is at the rate of more than \$3,000bn annually, against maybe \$200bn reported for gilts by the Loudon Stock Exchange. In the past, the gilt market has kept two firms of jobbers and maybe 10 firms of brokers reasonably rich. But the com-missions scale is to be abolished; and it is generally agreed that commission will disappear entirely on most institu-

tional-size business. So how can the market accommodate 25 or so official market makers (which have to earn a return on more than £500m of dedicated capital) not to mantion other firms which will still try to scratch a living as agency

new market, the spread might be only 1, with no commission. So investors will have to double their volume of transactions for maintain their revenue. And the firm's costs have been greatly increased.

Moreover, the pessimists

market has just been removed. Tax-related switching by net funds — especially insurance companies—has been a big market factor over the MAIS.

But that motive was eliminated at the beginning of this month when tax changes initiated by the Government 12 months and became effective. months ago became effective. There are, however, some important arguments in the other direction. To begin with, the simple reduction of dealing

the simple reduction of dealing costs will encourage investors to trade more actively. Secondly, the old tax structure may have encouraged activity at the half-yearly dividend dates, but it discouraged it in between. Now, fund managers are free to pursue anomalies or back their interest rate judgments.

A big and expanding interest in multicurrency bond funds

A third reason why volume will expand is that the new structure of market makers linked by inter-dealer brokers will cause an explosion of interwill cause an explosion of inter-professional trading. This will boost the market's liquidity, but while some market makers might gain cannibalistically at the expense of others, through clever positioning of their trad-ing books, the system as a whole

whipping up business in gilts and other sterling bonds.

This comes at a time when This comes at a time woen there is a big and expanding interest in multicurrency bond funds which treat the peculiarities and divergencies of national bond markets not as a the firm's costs have been national cond markets not as a rollowing centuries greatly increased.

Moreover, the pessimists The sterling bond markets, in being bought by the han American fortune.



tion that the currency tends to move differently from other major currencies such as the US dollar, the mark or the yen, something that also applies to interest rates.

Moreover, there is a wide and

moreover, there is a wide and sophisticated range of instruments — even index-linked : § 's — with a particular emphasis on long-dated bonds, which offer extra leverage to the bind investor, and are not found, for example in the Eurobond market

A large group of banks and securities firms is now seeking to develop a global presence in the bond markets. A considerable number are trying to enter the US Treasury bond market as primary dealers, despite the problems in making money in that role.

Presumably this interactions

Presumably this internationalisation is what the Bank of England wants. It will improved liquidity and diversity of view, nquality and diversity of view, potentially making funding easier. Yet there are also dangers, in that the gilt-edged market could be at the mercy of panicky swings of view by illinformed overseas bond fund managers.

managers.

It is certainly an unsettling time for the domestic fund managers who used to dominate the market but who now need to adapt to the new structure without the henefit of the enormous resources—and elevated salaries—available to them in the market-making firms.

They may conclude that the

They may conclude that the new market, as designed by the Bank of England, is structured more to protect a surfeit of market makers than to serve investors. The proposed except

ing books, the system as a whole can only profit through the participation of genuine outside investors.

A fourth factor, the introduction of a major new international dimension, is potentially the most important, although the least predictable.

Foreigners have from time to time in the past been active investors in the gift-edged market, but now leading American banks and securities groups will have permanent sales teams whipping up business in gilts new market's opportunities.
At the same time, the market is likely to be affected in highly

is likely to be anected in mighty unfamiliar ways by the pressures from the new international participants. It could contain the global market.

Ironically Leeds Castle. Ironically, Leeds Castle, following centuries of blue-blooded ownership, wound up being bought by the heiress to

# FINANCIAL TIMES SURVEY

Monday July 28 1986

# talian Defence Industry

Italy exports 60 per cent of the output of its defence industry. Impetus has come from the Italian forces' re-equipment programme, and from good markets among Opec and other developing countries.

# Sixth in the world league

world's major exporters of military equipment was a source of surprise and even awe among the long-established arms manusurprise and even awe among at 14,5000m — a decline in real lialian warship building onfacturers of Europe and the US.

How, they asked, could a
country that has one of the
lowest levels of defence spending in relation to gross domestic product in Nato support a
defence industry which ranks
sixth in the league table of
arms compared with 1983.

Even so, Italy continues to
export around 60 per cent of
\$1.6bn order to build six Lupo
frigates, four corvettes, a
supply ship and a floating dock.
Only the supply ship has
been delivered because Iraq,
deprived of its ports by the war
with Iran, has been unable to defence industry which ranks sixth in the league table of arms exporters — coming after the US, Soviet Union, France, the UK and West Germany?

How, they questioned, could the Italian defence industry schieve this terformers where schieve this performance when it employed only 80,000 people—just 1.2 per cent of the Italain industrial labour force, compared with the 435,000 people (7.2 per cent of the industrial labour force) employed in the labour force) employed in the British defence sector? How could one explain the

fact that, while Britain in 1983 devoted no less than 50 per cent of its total spending on research and development to defence, and France 33.2 per cent, Italy contributed a mere 6.1 per cent — and yet still managed to retain about 3 per cent of the world defence sales market, against 6 per cent for Britain and 9 per cent for

The position of Italy's defence industry is now well established about the Western world's major arms manufactur-ing countries. But the spurt of growth which brought the Italians to such prominence in the late 1970s and early 1980s

Even from the highly uncer-tain defence industry statistics, it is clear that Italian arms ex-

ports have peaked. In 1983 they reached IA.400bn; the following year they were down to to venezuela and Peru. In 1981 L3.900bn; in 1985 they stood at IA.500bn — a decline in real Italian warship building off-terms compared with 1983.

### By James Buxton

its present prominence. From 1975 onwards the Italian armed forces embarked on a reequipment programme which, though modest by some countries' standards, meant almost a doubling in real terms of spending on military equipment over the 1978-85 period.

At the same time Italy found and successfully exploited good in the successfully exploited good and successfully exploited good in part it has paid for them. But that is another story. These his orders benefited not only the shipbuilding sector, but much of the rest of the Italian defence industry: companies such as Oto Melara, which makes guns and missiles, Flat Aviazione, which makes General Electric turbines under licence. Selenia, which pro-

At the same time Italy found and successfully exploited good markets in the newly rich Open countries and other developing nations. Developing countries as a whole accounted for 93 per cent of Italian arms exports over the 1978-82 period, comover the 1978-82 period, compared with the average for France, Britain, West Germany and Italy of 85 per cent. The surge in demand came at a moment when the Italian defence industry was just about ready to respond to it. Italy's energetic and imaginative defence equipment salesmen did the rest.

Italy had big successes in, for example, warship production.

licence, Selenia, which produces missiles and radar, and unces missiles and radar, and several other companies which formed a loose consortium called the Melara Club. Other notable beneficiaries of

ammunition to Iraq since the Iran-Iraq war began in 1980.

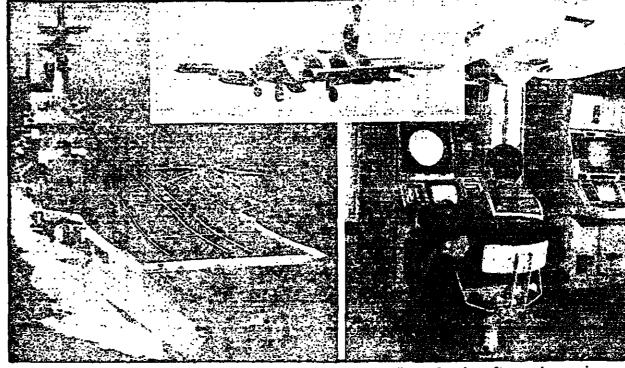
The decline in the spending power of the Opec states hit Italy hard, even though its effects took time to work through, For some companies, such as Agusta, it caused grave financial problems; and even now not many Italian defence companies are doing well in terms of profits.

terms of profits.

With its still relatively small domestic market, the Italian defence industry had to make a reassessment. This culminated, in mid-1984, in a two-day conference in Rome ettended by all the major figures of both the industry and armed forces. One encouraging conclusion of that conference was that the industry had reached a level of maturity which made it relatively well-placed to compete in the still-flourishing, but demanding and protected, Nato defence market. protected, Nato defence market.

But another conclusion, rammed home in a tough speech by Mr Cesare Romiti, managing director of Fiat, then beginning to take a strong new interest in the defence sector, was that the industry was poorly organised: there were too many companies of making mathematical particular and the section of the secti of medium rather than large size; there was needless competition, even between state-owned groups, and excessive fragmentation of production in almost every field. Indeed, to an amost every field. Indeed, to an outsider the Italian defence industry sometimes seems a bewildering piece of lattice-work, the hybrid product of enterprising Italian private-sector businessmen, and of political intrigue blended with technical competence that technical the Italian state.

conclusion.



Top: an Acrmacchi MB-339K Veltro 2 support aircraft. Left: the aircraft-carrying cruiser Garibaldi. Right: the weapon control system on board Garibaldi

different companies in special sectors, or to produce particular products; while the big groups, such as Fiat (which, if its control of Snia BPD is taken into account, is Italy's biggest defence company) have continued to acquire and consolidate stakes in subsidiaries. But there have been no mergers, and many of the problems of the structure of the defence industry remain, as explained by Dr Michele Nones in his article in this survey.

But Italy should still be able to reap the benefit of its deve-lopment over the past decade. lopment over the past decade. Its 15 per cent participation in the Panavia Tornado project — shared with Britain and West Germany — has paid off in terms of extra know-how and what is likely to be an increased stake in the European Fighter Aircarft project.

Agusta's patient and often troubled road to relative self-sufficiency in design of helicopters looks like paying off with the project to build a mark II version of the Mangusta

A theme in most of these collaborative ventures is the link between Britain and Italy, most notably in aerospace. This often rivals the close connections in the defence field that have been established between France and West Germany. British and Italian companies usually get on well together in the defence field. Two of Italy's defence electronics companies have British participation, while have British participation, while Fiat is now a minority share-holder in Westland, after defeating — in the company of Sikor-sky—the European consortium's bid to rescue the British company. A prominent member of the unsuccessful consortium was Agusta.

Where the Italian defence industry has so far had little success is in penetrating the

Some of those problems have been remedied by the setting up of consortia between the different companies in specime sectors, or to produce particular products; while the big groups, such as Fiat (which, if its control of Snia BPD is taken into account, is Italy's biggest defence company) have conditional of the UK. There is a successful collaboration in missiles between the US and other Nato countries means defence sales between the US and other Nato countries means defence sales between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the UK. There is a successful collaboration in missiles between the US and other Nato countries means the uking the UK. There is a successful collaboration in missiles between the US and other Nato countries means the collaboration in the UK. There is a successful collaboration in missiles between the UK. to the US of between L200bn and 250bn. Not even the suc-cess last year in Beretta, of having its pistol chosen as the preferred pistol of the US armed forces, will make more

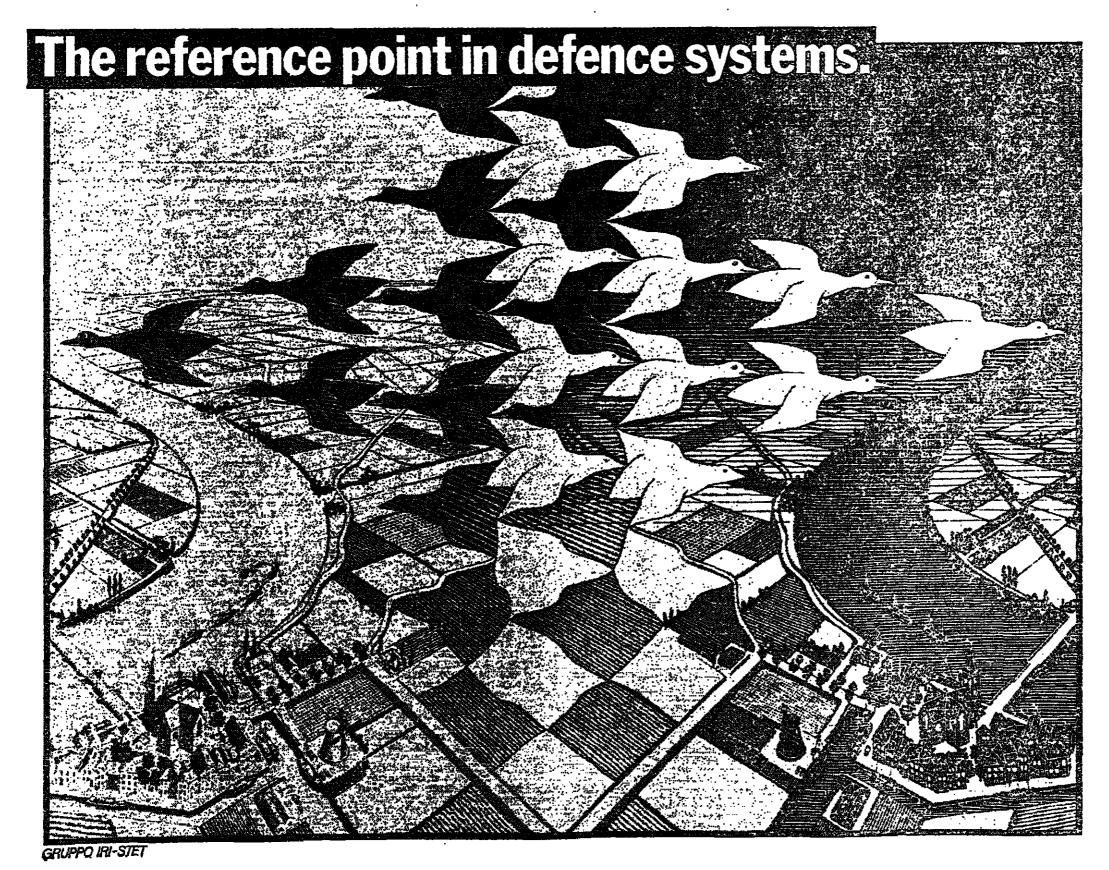
than a small dent in the figures. Nevertheless the defence industry is striving to win contracts under President Reagan's strategic defence initiative programme, despite ment has only recently agreed to start negotiating an agreement to cover this kind of collaboration. Fiat, inspite of the shadows cast by the 15 per cent stake in it held by the Libyan government, is anxious to get as close as it can to the US Defence Department, through association with US defence contractors such as United Technologies, the parent of Sikorsky.

defence industry are pinned on Italy.

programme for the Italian armed forces, which might procurement structure at the vanni Spadolipi, the energetic in an attempt to co-ordinate the needs of the armed forces. Italian foreign policy and the defence industry.

Last summer he presented to parliament a bill to regulate the somewhat haphazard proment grants arms expor licences and controls end-use certificates. But the Defence/ Industry Committee has no permanent staff; while the bill along with other essential measures regarding the armed forces, is marooned in parlia-

In the meantime, many people, both in the industry and in the armed forces, would like to see the creation of a more orderly and less subtly politi-But many hopes in the Italian major defence contracts in





Selenia has always been a leader in défence systems engineering. It is an all-Italian indu-strial reality. 7,000 employees. 6 plants, a turnover of \$ 450 million of which 60% is destined for exportation.

Selenia is the company to refer to if you want to understand "the State of Art" of the most advanced technology. Selenia designs and produces systems that

are known and well reputed all over the world. These are:

- Integrated air defence systems. Integrated coastal and low coverage defence systems.
- Command and control systems.
   Three-dimensional surveillance radar.
- Low coverage surveillance radar.
- Early warning radar. Fire control radar.
- Ground-to-air missile systems for point defence. Air-to-air missile systems.
- o Air-to-air: ground-to-air, ship-to-air missiles. Integrated ESM/ECM air defence systems for detection, analysis and jamming of radar signals. Airborne integrated ESM. ECM systems.
- Pod-mounted ECM systems for self-protection of high performance aircraft. IR systems for detection and tracking. Laser equipment and systems. Avionic systems.
- In the field of naval systems, Selenia and Elsag jointly have formed the Selenia-Elsag Naval Systems Consortium for the marketing of: Surveillance radar.
- Surfece to air missile systems Radar and optronic fire control systems. Command and control systems.
- Integrated naval combat systems.
   Coastal surveillance radar. SELENIA IS THE LEADING COMPANY OF RSE-SELENIA ELSAG GROUP.



RSE in 1985: Sales exceeding \$ 800 million, 13,000 employees, 18 production facilities throughout Italy, export of hi-tech systems and licensing to more than 100 countries,

FIAT

100 IVECO (NL) 100, 80 80 80 81

28.4

The structure of the Italian defence industry
With percentage stakes

THE ITALIAN defence indus-try has made important OPEC countries alone — with progress in the last ten years, all the consequences which

MLRS (D)

CONS. OTO-IVECO 450

But, in the last two years, the market in non-industrialised countries has presented difficulties, due mainly to the fall in oil revenue and to rising debt. A further problem, but debt. A further problem, but a limited one so far, is the arrival on the world market of new arms producers eiming at just those areas of medium-level technology where Italy, until now, has been strong, and where low labour costs represent one of the principal ingredients of success.

Now that the phase of fast expansion is over, attention is

Six big parent groups, each with military sales of more than L500bn in 1985, lead the Italian defence industry. The Flat kon-Buhrle, is among the most group comes first with military listy. Two important elec-sales amounting to about tronics companies are linked to

I.I.600bn taking into account the sales of Snia BPD, which it effectively controls. Fiat is controls Marconi Italiana, a the only private-sector group among the big producers. The other five groups are in the public sector. The state industrial holding company, Istituto per la Ricostruzione Industriale (IRI), controls three groups, Financcanica (L900bn and Iso0obn, while his tary sales), Stet (L570bn) and Finantiem (L500bn); while the much smaller state holding company, Oto Melara, has no many EFIM controls two, Finanzales. There are holding company EFIM controls two, Finanzales and Aviofer Breda (I.J.070bn) and and Aviofer Breda (I.J.070bn) and their sub-contractors. Some 38 of the 75 major companies are offishoots of the six main groups.

The major weekness of the six main groups.

British groups: Plessey has a always rising, and in research and development which absorb the controls Marconi Italiana, a particularly dynamic concern. The total value of annual military production is between the long gestation periods of projects.

A second weakness is the insufficient degree of specialisation of each company and each group. In order to be sure of getting enough work, or simply in order to expand, companies have offen been tempted to go after every single order, formational defence operating companies, such as Aeritalia, which have a bigger overall turnover, but this is because they have an important civil side. Thus there is a major gap between the size of the 75 major companies are offishoots of the six main groups. Italian defence operating companies and about 50 principal is a major gap between the size of Italian defence companies are offshoots of the six main groups.

The major weakness of the major weakness of the defence industry is the expansion is over, attention is sub-contractors. Some 38 of the structural problems of the structural problems of the structural problems of the contractors. Some 38 of the structural problems are solved if presence of foreign groups. There is also an important presence of foreign groups which, directly or indirectly, control 16 companies (seven of which are American). One of which are American). One of them, the Swiss company Oerli-

**Organisation** 

12.5 12.5 CONS. CISDEG 33.3 CONS. ITALMISSILE 33.3

Italian defence industry is the excessive number of companies and their subsequent smallness.
This causes problems for marketing, which requires an
extensive sales network and ever greater financial strength, both in the field of production,

Greater degree of specialisation needed be remnanced by the state.

PANAVIA (D)

other sectors, in which the Italian defence industry is having trouble taking off, or from which it is simply absent

This has happened, in the past in the field of trainer aircraft, opto-electronics, avionics, mines, and artiflery ammuni-tion (a sector in which the problem seems to be re-emerg-

altogether, are ignored.

decisions to compete with other Italian concerns have been taken by state-sector companies which are continually having to

AERON. MACCHI 100

Apart from the repeated tendency of companies to try to supplant one another, the industry is excessively diffuse. There are three companies in the aero-engine sector and four in that making marine engines, turse producing mines, the same number making ammunition. number making ammunition, three in the field of radar, and no fewer than 10 in telecommunications. If, in the past, this has guaranteed elasticity and dynamism, in the long term it risks impeding the rationalisation which is needed.

'the classic example of this prolixity is the aerospace sec-tor, where each of the two state-controlled companies—Aeritalia and Agusta—seems to be intent and Agusta—seems to be intent on acquiring supremacy, on buying up sushidiaries and on initiating new and different product lnes, instead of follow-ing a coherent plan for the de-velopment of industrial

Another problem is caused Another problem is caused by the tendency towards vertical integration among the big groups. By taking control of important sub-contractors, they have put the latter into privileged positions which do not followed, that of creating confollowed, that of creating con-

always favour industrial efficiency. Niches have been carved out for these sub-contractors which may not be genuinely competitive, and in the meantime resources are wasted which could have been used more productively on the principal activities of the companies which lead their sectors.

For both political and indus-trial reasons, the defence indus-try has changed profoundly in the last ten years, and the process is continuing. The big groups have pursued the goal of strengthening themselves through a policy of financial centralisation based on the purchase of (often large) equity participations in other com-

The network of shareholdings

The network of shareholdings has become more complex, linking together companies in which other shareholders are still represented, a process that is happening in both the public and the private sectors. This makes more difficult the indispensable task of rationalisation to size companies more viable. pensanie task or rationalisation to give companies more viable dimensions. Only in one area has this problem been solved: that of the public-sector ship-building industry, even if there are uncertainties over its marked discall sector.

Warship-building

Sailing into a lean period

sortia. There are two types of consortium: those of a general kind, aimed at co-ordinating the policy of the participants in the whole sector; and those dedi-cated to producing single items of equipment. In the first or equipment. In the first category are Italinisals for missles, Webs for underwater systems, Scienta-Easy for naval systems, Cideg for the integra-tion of naval waspon systems, and Cirsea for aerospace equip-

CONS.-CONSORTRIM

OPERATING COMPANIES

CONS. SMIN

Enradar for the rader to I installed on the Ralian version of the EH 101 belicopter, Smin for the system of detecting and neutralising naval mines, and Otn-Iveco Flat for the secondgeneration battle tank and for the SXS wheeled anti-tank

Thus, alongside the battle to agreements have been used to formalise and strengthen the alliances which have always cess may resolve certain conflicts of interest, it does not

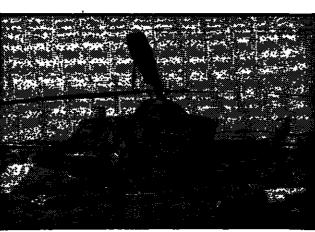
Aerospace

# Sector difficult to restructure

THE ITALIAN eerospace in-dustry is a good example of a ordered by the Italian air defence industry sector that force. Thus it gains priceless has achieved maturity in the knownow and experence.

past decade.

Some 75 per cent of the combined turnover of the two leadbined turnover of the two leadthe European Fighter Aircraft



THE ELEGANT lines of the sinerast carrier Garsbaldi probably caught the eye of many visitors to Italy's naval equipment show, held in Genoa during the second week of June. Lying not far off-shore from the city's exhibition centre, the vessel was an eloquent reminder of the capability of the coun-try's military shipbuilding

Major Western European arms exporters and their markets per cent 1978 - 1982

Norm Africa — 23.1 6.2 28.2 8.2 85.4 5.7 7.2 2.6 21.2 Oceania America
8.1 14.2
9.4 6.9
5.4 22.3
12.5 8.6

Service of the control of the contro

### Electronics

# Equipped for many tasks

killing decoys and electronic counter-measures to hard-killing guns and missiles.

Aerials, antennae, mountings and launchers leave no doubts about role, and suggest considerable fighting capability. The reason for the heavy armament of the Italian Navy's warships is the wide range of tasks which they may be asked to under-take, and the threats which they would probably have to face in a Mediterranean conflict.

The specification of the Maestrale-class frigates, which entered service four years ago, includes convoy defence against submarines, air and surface attack, interdiction of seaways and coastal bombardment.

Combat systems installed in these frigates are designed to face threats from submarines, sea-skimming or diving missiles, surface ships and aircraft fitted with missiles of every type. It is hardly surprising that these frigates are described as multi-

A complex set of electronics systems supports four Otomat surface-to-surface missile launchers, an eight-cell Albatros surface-to-air missile launcher, four torpedo launchers, two rocket launchers, a single 127/54 Oto Melara gun and two twin 40/70 Breda guns, and two two 20/10 breds guist, with which the Maestrale-class frigates are armed. The ships are equipped with an overall command and control system, as well as normal navigation radar

Like the weapons, the electronics which are packed into the Maestrale are of Italian design and production. Defence is a sector where Italy's electronics industry has generally reached an advanced

level of autonomy and technological sophistication.

Indeed, the state itself is heavily involved through the Selenia-Elsag subsidiaries of the holding corporation IRL. A considerable amount of electronics installed in the Maestrale frigates is supplied by Eksag Electronica San Giorgio (the fire control systems) and by Elsag's parent company Selenia radar and command and control systems).

mentions its three-dimensional S-band radar for air surveillance, and the ground-based air defence system Spada, as the strong weapons in its commer-

Spada provides a clear example of product evolution in the defence sector. It em-ploys the Aspide anti-aircraft missile, which operates on a and can fit a wide range of airsemi-active guidance system traft. These include the F5 over a range of about 15 km.
The missile's original role was ship-borne, in the Albairos system, and dates back a decade. The first operational land-based Spada batteries were delivered two years are

land-based Spada batteries were delivered two years ago,
Akthough Selenia is studying a new missile (the Idra) with the aim of replacing Aspide during the 1990's, it is still developing the current missile's potential. The first trial of Aspide in an air-to-air role took place last year. Selenia save place last year. Selenia says that five launches from Italian Air Force F104's have all been

During Aspide's ten-year life there have been various modifications leading to improved performance, the most important being changes to the missie's wings.

Another field where Selenia sees good opportunities for exports, as well as for sales to its own Ministry of Defence, is electronic counter-measures

However, Italy's leader in electronic counter-measures (ECM) continues to be Electronica, the Rome-based company in which Britain's Plessey has a 35 per cent interest. Unlike Selenia, virtually none of its sales (nearly L190bn last year, compared with L130bn in 1962) goes to the civil sector. A company spokesman estimates.

ITALIAN WARSHIPS seem to sales and prospects for land- jammer and warning system is bristle with weapons, from soft- based systems. The company designed to protect attack and designed to protect attack and fighter sircraft by operating anti-aircraft systems.

Elettronica believes that selfpretection ECM is now a necessity for all types of aircraft and in all combat environments. The company's ELT 555 system, contained in a pod, is mounted externally under . traft. These include the F5 Tiger, F4 Phantom, Jaguar and Hawk, as well as the Russian SU7 and MiG 21.

The system is capable of operating against radar emission in very dense electromagnetic environments. Fast reaction, multiple target-selec-tion and a variety of deception techniques are aimed at putting anti-increat missiles off-target.

That the value of self-protection ECM is appreciated in export markets is visible in Elettronica's figures, though in-

terest appears to be declining. Sales abroad were 68 per cent of total turnover last year, compared with 77 per cent in 1984, and 87 per cent in 1983. Exports are a subject about which the company reveals little. Client countries do not

however, that lack of new products might be a reason for Elettronica's disappointing re-

The company's consolidated

The company says it has dediresearch a deficit of 1.6bn last year,
effort in this field, particularly
in the area of recognition
systems.

However, Italy's leader in
least recognition from its workforce of 2,100, an
overstim which chevild he came operation which should be completed by the end of July.

The future for Elettronica capability, a field which has been talk about diversification. Italy is thought to be backward.

Tagar which was installed in an operation which has hear and which has hear talk about diversification. Italy is thought to be backward. operation which should be com-pleted by the end of July. The future for Elettronica looks somewhat uncertain. There tion into bio-medical engineering, but the spokesman em-phasised that the company is in the electronic warfare business. control systems).

Last year 51 per cent of Selenia's turnover of L6980n that sales were split. 20 per cent of L5980n in 1984. A similar proportion of Elsag's sales of L207bn last year came from systems and equipment in the defence sector.

Though the naval side of its defence business is currently feeling the effects of low ship-building activity and tough.

The company's spokesman estimates the electronic warfare business. This is what it does well and where it sees its future. It is where it does well and where it sees its future. It is where it sees its future. It is where it does well and where it sees its future. It is where it does well and where it sees its future. It is where it sees its future. It is where it sees its future. It is where it does well and where it sees its future. It is the clear sees its futu



Maestrale class frigate

Selenia—Leader in Italy's defence electronics (billion lire)

| 1981 | 1982        | 1983    | 1984        | 1985            |
|------|-------------|---------|-------------|-----------------|
| 304  | 231         | 479     | 597         | 698             |
| 193  | 29 <u>4</u> | 255     | 386         | 410             |
| 106  | 97          | 124     | 211         | 288             |
| 102  | 160         | 214     | 282         | 350             |
| 202  | 231         | 265     | 315         | 348             |
|      | 304         | 304 231 | 304 231 479 | 364 231 479 597 |
|      | 198         | 193 294 | 198 294 235 | 198 294 235 386 |
|      | 106         | 106 97  | 106 97 124  | 106 97 124 211  |
|      | 102         | 102 160 | 102 160 214 | 102 160 214 282 |

missile's wings.

Selenia's engineers also emphasise the evolution of the missile in its multi-role capacity. A multi-role weapon permits substantial logistics savings. Though export contracts for Spada have yet to be signed, the system has a selling edge in other countries whose navies are already equipped with Albatros.

Want publicity its tare forces and with their air forces and theets have been equipped.

There is an equally reserved line on product development.

The Melara Club, grouping ten suppliers from different fields, is the industry's way of systems. While there are new and interesting systems under or packages for overseas defence are already equipped with Albatros.

Selenia

Selenia

Want publicity its tare forces and which is likely to be increasingly adopted.

The Melara Club, grouping ten suppliers from different fields, is the industry's way of putting together complete and interesting systems under occurrence whose navies are already equipped with hele air forces and with which their air forces. ten suppliers from ten suppliers from ten suppliers from fields, is the industry's way of putting together complete packages for overseas defence Navy, whose requirement is packages for overseas defence Navy, whose requirement is packages for overseas defence Navy. System trials are expectively combat systems. Selenia-Elsag ted to start at the beginning and Elettronica are joined by of the 1990s, with first installations towards the middle of the decade. and Elettronica are joined by the electronics company Elmer, state-controlled Breda and Oto Melara which make guns and misiles, and by the torpedo manufacturer Whitehead.

Whitehead which is owned

Whitehead, which is owned by carmaker Fiat, is engaged in another venture with Elsag. The Welse underwater system con-sortium has been established Submarine activity in the Mediterranean is increasing, and Italy's means of keeping it under surveillance are probably

theon sonar, built under licence by Elsag.

Attempts by Selenia-Elsag to obtain international collaboration with French and British related by the US will prevent a European Itale British collaboration of this area. It could be that special understanding between British and the US will prevent a European Itale British collaboration. concerns have not come to fruition. This is, however, a tion for the multi-function

Selenia is hoping for better Selenda is hoping for better fortune with its multi-func-tional phased array radar. It recently made a joint presenta-tion of the system with the Marconi company to the Royal Navy, whose requirement is similar to that of the Italian

decade.
Selemia says this is its biggest project in the naval field, Substantial investment is needed, and this explains the search for a schable partner. In the early 1970s Selenia worked with Ferranti on the 912 tracker radar which was installed in all the Royal Navy's Type-21 Amazon-class frigates, so a joint

Officials discreetly mention

that Britain and Italy tend to have more in common with each other and work better together than with either of the two other major European allies. There is, however, an American factor. British connections with the US on underwater warfare are possibly obstacles to Italo-British collaboration in

David Lane

# 'On land, sea and in air'

Last year Fiat increased its sales in the defence field by 12 per cent, says James Buxton, in this profile of the com-

THE EXPANSION of Fiat in the defence sector in the past few years is a very important development for the Italian arms industry. The commit-ment and the international experience of Fiat should bring benefits to the entire sector. Since 1983 Fiat has: become the controlling shareholder of

pany's defence sector.

Snia BPD, Italy's principal maker of munitions and rocket fuel; acquired the main Italian makers of mines; made a convincing attempt to win con-tracts under the strategic de-fence initiative programme; and participated in the ultimately successful Sikorsky rescue bid for Westland, the British helicopter-maker. Mr Cesare Romiti, Fiat's man-

aging director, argues that there is nothing new acoust Fiat's interest in defence. Fiat, he points out, was a major producer of armaments in both world wars, and has maintained world wars, and mas mainted its interest in many sectors of defence in peacetime. "We used to have the advertising slogan 'Fiat on land, sea and in the air,'" he said in an in the air," He said in an interview earlier this year.

Fiat used, in particular, to be one of the country's leading aircraft companies, making a range of aircraft designated "G," after their designer "G," after their designer Gabrielli.

Gabrielli.

Mr Romiti explains Fiat's interest in defence in two ways.

In part, it fits in with the group's strategy of strengthening sectors other than cars. In part, it enables it to gain access to sophisticated technology. sophisticated technology which can be adapted to other

which can be adapted to other uses. "This is one of the ways in which technology advances most quickly," he says.

Last year, it has been calculated. Fiat had sales totalling L950bn in the defence field, an increase of 12 per cent compared with 1984. This put the group in second place in the entire Italian defence industry, a little way behind the state-owned Breda group with owns. Oto Melara. But the calculation does not include Snia BPD, whose defence sales totalled whose defence sales totalled L630bn, and in which Fiat bas a stake which is soon to go up from 27 per cent to nearly 40 per cent.



Cesare Romiti: "This is one of the ways in which technology ad-

vances most quickly." Fiat itself has helped the process, both through its acqui-sitions and its collaboration with other companies. One of its major offshoots in the defence field is the branch of lveco, based at Bolzano in the Alto Adige, which makes mili-tary vehicles. In 1984 it agreed with Oto Melara, of the state sector, to co-ordinate in building a new battle tank for the 1990s, an ambitious project by which the two companies hope to edge their way into future European tank collaboration ventures. There is also a joint venture to build a heavy eightwheel armoured car mounting

When Fiat pulled out of Aeritalia in 1976, the rump of Fiat Aviazione continued to make aero-engines, as well as make aero-engines, as we'll as turbines for warships and other mechanical equipment. Fiat Aviazione has gradually pulled itself up from manufacturing engines under licence—for example the earlier Rolls-Royce jet engines—into being a partner with the major aero-engine manufacturers in joint ventures manufacturers in joint ventures set on a wide ward of control of the control of t on a wide range of engines.
The company, whose sales last
year jumped 24 per cent to
L462bn, hes an ingenious neg-

work of alliances. In 1985, the company says,

machinery, which enables the rotors to power other applica-tions in the helicopter, accounts for 14-15 per cent of the value of every Aerospatiale helicopter

flying. When, last winter, Fiat joined when, last winter, Fiat joined United Technologies in bidding to rescue Westland, the British helicopter-maker, the expansion of the helicopter gearbox business was presented as one of the main reasons for Plat's involve-ment. Yet this was almost certainly a very minor part of Fiat's thinking. The gearbox business accounts for only about 2 per cent of Fiat Aviazione's total sales.
A rather more plausible

A rather more plausible reason, advanced on the top floor of the Fiat headquarters in Turin, was that Fiat wanted to help the creation of a rival helicopter-making alliance in Europe to match the dominance of Aerospatiale in this sector.

But probably the principal Of Aerospatiale in this sector.

But probably the principal reason for Fiat's involvement was to collaborate as closely as possible with United Technologies, a major US defence contractor which has Mr Gianni Agnelli, the Fiat chairman, on its European advicement based. its European advisory board "We want to be connected with top-quality US corporations and with the US defence depart-ment," said a senior official at Frat during the Westland affair. The Westland affair brought to light previously unknown contacts between Flat and Agusta, EFIM, Agusta's parent company, had sounded out Fiat on the possibility of its taking a stake in the helicopter com-

pany, an idea about which Flat

had reservations.

After Fiat had joined United Technologies in hidding for Westland, the Turin-based com-pany invited Agusta to join it on its side of the fence. The offer, which was repeated, was turned down; Fiat believes this strengthening its chances of obtaining SDI contracts. Preliminary examinations by the US of what Italy had to offer in the field of SDI showed that some 44 per cent of Flat Aviazione's sales were to the military
sector, three quarters of it
accounted for by the Flat participation in the Turbo Union
RB 199 engine for the Tornado,
in which Flat is in partnership
with Rolls-Royce and MTU of
West Germany.

projects, though the details
have not been published. But,
until early June, the possible of Flat winning SDI contracts
was held up by the refusal of
the Italian government to negotiate a government to negotiate a government on star wars.

But now that the Italian projects, though the details with Rolls-Royce and MTU of ment agreement on star wars.
West Germany.

Flat Aviazione manufactures, government has finally decided per cent.

Ever since the Snia acquisition, which closely accompanied the purchase by Fiat of Misar and Valsella, two companies which have a thriving business in making mines and other explosive devices, Mr Romiti has led a campaign for the rationalisation of the Italian defence industry. He has publicly urged companies to cooperate more closely and eliminate needless duplication.

Fiat Aviazione manufactures, a junior partner with General to negotiate, Fiat has come under a cloud because of US disapproval of the 15 per cent stake held in the company by copters in the US. Fiat is the Libyan government has finally decided a properture with General to negotiate, Fiat has come under a cloud because of US disapproval of the 15 per cent stake held in the company by copters. The Libyan government has finally decided a proper with General to negotiate, Fiat has come under a cloud because of US disapproval of the 15 per cent stake held in the company by copters. The Libyan government to sell to this, a contract to sell fiatallis earthmoving equipment has finally decided and indered to be the main developing a more powerful to negotiate, Fiat has come under a cloud because of US disapproval of the 15 per cent stake held in the company by copters. For 30 years Fiat Aviazione manufactures, a junior partner with General to negotiate, Fiat has come under a cloud because of US disapproval of the 15 per cent stake held in the company by copters. For 30 years Fiat Aviazione manufactures, a junior partner with General to negotiate, Fiat has come under a cloud because of US disapproval of the 15 per cent stake held in the company by copters. For 30 years Fiat Aviazione has supplied the accessory gear-specific provided in the company by copters. For 30 years Fiat Aviazione has supplied the accessory gear-specific provided in the company by copters. For 30 years Fiat Aviazione has supplied the accessory gear-specific provided in the company by dot the libyan government. Thanks to the Libyan government to the company by copters. Fi

sell its stake and remove this obstacle to the company's defence industry ambitions.

### Armed Forces

# Early fruits of a rising budget

THE CONSTITUTION of the Italian republic specifically condemns war as a means of settling international disputes. Yet, at the beginning of June, when Italy celebrated the 40th anniversary of the founding of the republic, probably the most striking event was the military parade in the heart of Rome.

Armoured vehicles and mobile guided missiles thun-dered along Via dei Fori Imperiali. Jets, transport aircraft and helicopters roared ovehead. Mounted Carabinieri trotted past the presidential saluting box, the little dog that is their mascot scampering along beside them. It was the biggest and most impressive military parade Italy has put on for

greater punic acceptance than they did, for example, during the 1970s. They are now the subject of far more public atten-tion, and of regular learned articles in the newspapers. But how much have they really changed?

changed?

Post-war Italy has never wanted to be a militarily powerful country. The armed forces were resurrected after the distance of the created warld war. asters of the second world war a deliberately fettered way. Defence spending was kept on a tight rein and manpower was dominated, at least in the army, by conscripts, representing all parts of the Italian political

spectrum.
Though Italy has an important role on Nato's southern flank, the ultimate defence of the country has, in effect, been entrusted to the US, through its nuclear umbrella and the Sixth Fleet in the Mediteranean. Thus, at the end of the 1970s, Italy was spending less than two per cent of gross domestic product on defence. Even by 1984 the proportion had only risen to 23 per cent of GDP, compared with 5 per cent for Britain and 3 per cent for

The armed forces are relatively strong in terms of man-power, but some 205,000 out of the 270,000 men in the army are conscripts doing one year's military service, often in very uninspiring conditions. Yet 44 per cent of all defence spending goes on manpower, squeezing the amount left to be spent

on equipment.

But important changes have taken place over the past few years. Expenditure has risen in

Defence spending by major Western European countries: 1983

| e<br>I-<br>y<br>e |                        | Defence<br>spending<br>(\$m) | Spending<br>on defence<br>equipmen<br>(\$m) | e spending per |
|-------------------|------------------------|------------------------------|---|----------------|
|                   | France                 | 21.381                       | 3.850+                                      | 7.820          |
| ď                 | Germany                | 22.127                       | 3.828                                       | 7.733          |
| 3-                | Italy                  | 9.788                        | 1.458                                       | 3.907          |
| 3-                | UK                     | 24.472                       | 6.584                                       | 20.380         |
| Ιτ                |                        | † WEU «                      | estimate.                                   |                |
| i.<br>d           | Source: NATO and IISS, | "The Military                | Balance 1984-85,"                           | Lendon 1984.   |
| =                 |                        |                              |   |                |

for 4 per cent of all govern-ment spending, against 3.85 per cent in 1980. In 1985 the de-fence budget amounted to years.

It was a sign that the Italian armed forces now enjoy much greater public acceptance than year in the cost of living index. As long ago as 1975 a multi-year re-equipment programme got under way to replace some of the ageing ships, aircraft, vehicles and weapons in the forces. The armed forces are now enjoying the early fruits of this programme, and more of this programme, and more projects are in the pipeline. These include: the AMX tactical fighter, the EH 101 naval helicopter, the Catrin field

transmission system, a project for a new Italian tank to replace the M 47s in service, a plan for a new heavy armoured vehicle, and the A 129 anti-tank helicopter. Nato statistics suggest that Italian spending on defence equipment doubled in real terms over the 1975-65 The revival of the confidence

and capabilities of the armed forces coincided, at the beginning of the 1980s, with Italy's taking a more active role than in the past in foreign policy. In 1982 Italy sent con-tingents to the US-sponsored

The Lebsnon operation was regarded as a considerable success, both in political and military terms. The Italians succeeded in keeping the peace in their zone with virtually no capualties. The army showed

| e<br>l-<br>y<br>e | France                 | Defence<br>spending<br>(\$m)<br>21.381 | Spending<br>on defence<br>equipment<br>(\$m)<br>3.850† | spending per |
|-------------------|------------------------|--|--|--------------|
| ď                 | Germany                | 22.127                                 | 3.828  | 7,733        |
| _                 | Italy                  | 9.788                                  | 1.458  | 3.907        |
| 1-                | UK                     | 24.A72                                 | 6.584  | 20.380       |
| ľ                 |                        | † WEU 4                                | estimate.  |              |
| ä                 | Source: NATO and IISS, |  |  | Lendon 1984. |
| _                 |                        | <del></del>                            |  |              |

that the use of military force need not necessarily be unpleasant and could pay political top, who last year published a dividends abroad. It was also a well-presented white paper, reminder that the Mediternanean was becoming an increasingly dangerous place, with threats to stability not just at the eastern end but from the well-equipped forces of Libya not far from the southern tip of Italy.

The increased preoccupation with the Mediterranean has brought about a shift in the focus of the armed forces, and the ways in which focus of the armed forces, and the ways in which eastern front, the most likely place for an invasion by the forces of the Warsaw pact, to the southern end of the peningular distinctions in the southern end of the peningular distinctions. that the use of military force real terms, and now accounts

eastern front, the most likely place for an invasion by the forces of the Warsaw pact, to the southern end of the peninsula, where seaborne attack: or pinprick raids by guerrillas could be feared.

Various forms of retaliation steff of the three services themwere considered, but in the end the government settled for a minister has to deal with all stern note of protest. The incident did, however, high-light the need for a national security council to take quick general of the ministry of decident or ministry trattering of the ministry of decident or ministry peace force in Sinai. Later that incident did, however, high-year it despatched a large peace—light the need for a national Furthermore, the secretary keeping force to Lebanon, security council to take quick general of the ministry of where it remained until early decisions on military matters in defence, who is the national crisis.

have military units able to go does not have full control over claimed recently that the armed into action at short notice, Mr the top officials technically forces were like the papal curia, Giovanni Spadolini, the Minister under him, each of whom has only with epaulettes instead of sided over the creation of a the minister and with different rapid intervention force of service chiefs. As a result, no in their zone with virtually no casualties. The army showed table intervention force of service chiefs. As a result, no soldiers whose units are supting of conscripts, it could function efficiently and perform 16 hours and to be in action the senior officers and officials, is selfective and well-motivated as those of any other country. There was little undue within 24 hours in situations to be in action to be i

He thus went some way to

heeding the advice of senior officers, such as retired Gen Luigi Caligaris, that at least some units of the armed forces must be given the training, loth to co-operate with other equipment and transport to arms. There is no effective enable them to move into action arbiter.
rapidly, and to constitute a core A good example of this is the of high-quality servicemen argument raging over the future accustomed to inter-force co-op-eration who would serve as an 13,000-tonne Guiseppe Garibaldi eration who would serve as an example to the rest. The critics, however, claim that the force exists little more than on paper, since it has neither the transport nor the ready co-operation of the other services

to make it effective.
In fact, despite the presence

even a minimal improvement in efficiency.

Politicians are particularly Just such a pinprick attack overdue bill to reform the occurred last April when, defence command structure is following the US air raid on still lying unexamined in parlia-Tripoli, Col Muammer Gaddat ment, allmost a year after it of Libya fired two missiles at was presented by Mr Spadolini. the island of Lampedusa, south Under the present command of Sicily. Both exploded in the structure, the chief of staff of sea, short of their target—a US the armed forces, who is, in coast guard station—but the rotation, a member of each of Italian forces were evidently the three services, is only on taken by surprise.

armaments director and respon-In response to the need to sible for the forces' equipment, of Defence since 1983, has pre- his own direct links with both

similar to Lebanon, or in the individual forces are, in effect, under what is eupemistically called "self-management." Each

arm of the services fights ruth-lessly for its own interests, in terms of both operations and equipment, and is extremely loth to co-operate with other

which came into service last year. The Garibaldi is a small aircraft carrier, rather smaller than the Royal Navy's HMS Invincible. But, because of a law dating back to the 1920s, she may not carry fixed-wing aircraft such as the British Aerospace Sea Harrier, and is confined to operating heli-

copters.
The air force has, for several years, been campaigning to dis-courage parliament from amending the law and thus enable the navy to take over a small portion of the air defence of the tion of the air defence of the country. Hardly anyone seems to examine the problem from the point of view of Italy's overal defence needs.

Mr Spadolini has, in fact, presented to parliament a bill that would abolish the aviation restrictions on the navy. But it has not yet her navy.

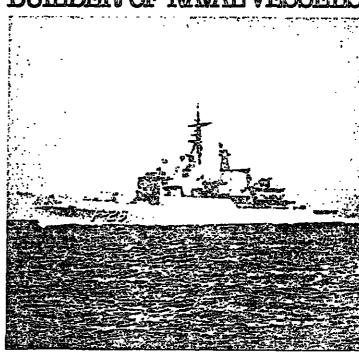
has not yet been approved. His other bill, to reform the defence command structure, would create just two posts, whose holders would report directly to him: the chief of staff of the armed forces, in charge of operations; and the secretary general of defence, in charge of supply. If this reform were approved, many observers believe, both the operations and the procurement sides of the armed forces would benefit

enormously. The present system, it is acknowledged, even by senior serving officers, fayours officers who are good at internal poli-tics, men better at sitting behind a desk than at commanding and

motivating men-Gen Caligaris, who, as a serving officer until 1982 found his plans to upgrade the forces' operational efficiency and keen-ness constantly thwarted, ness constantly thwarted, claimed recently that the armed cassocks.

With good leadership, he

James Buxton



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e attack to surface units — including amphibious forces — with gradual engagement intensity by missiles and/or gun. The use is also possible of the helicopter as an air-to-surface missile carrier and as a relay for early warning.

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### Wiltshier wins £21m orders

GROUP has orders totalling over £21m. Contracts cover all aspects of the Wiltshier business throughout their divisions in the UK as well as the major and growth market sectors. In London, Wiltshier Construction gained a major medical research refurbishment and construction project on behalf of the Cardiothoracic Institute. Another series of projects are in the retail area, including a development of a shopping arcade for Maridstone by Wiltshier Canterbury and the construction of a retail supermarket in Peterlee town centre by Wiltshier Northern

On the shopfitting front Wilt-shier Interiors will be supplying and fixing a stainless steel shopfront to a major retail super-market in Ashford, Kent, as well as a similar project in Guildford. Remedial work will also be undertaken for the Hilton Hotel in London which suffered from a

Wiltshier Southern is involved in the building of a 28-bedroom block extension and a major leisure complex for a large fiotel in Cobiam, Surrey. Wiltshier Tonbridge has also received orders for three pub refurbishments in Kent for Medway Inns. Wiltshier Canterbury is involved in the Phase III development of for the Dover District

WALTER LAWRENCE has been appointed design and build con-tractors for the construction of district offices for British Gas North Thames in south Harrow, Middlesex. The £1.03m contract will include the design and con-struction of the 19,000 sq ft twostorey office building and the provision of fuel dispensing facilities and a car park on the

Deposit with tender

# **Reading Station project**

Prudential Portfolio Managers has awarded a £24m contract to TARMAC CONSTRUCTION to build the Apex Plaza in Reading. The 200,000 sq ft office scheme, forms an integral part of the £50m redevelopment of Reading Station, being jointly undertaken by British Rail and Prudential.

The overall scheme includes a new main-line station for Reading a 1,600 space multi-storey car park, retail ware-housing and mechanised letter sorting office for the Post Office. Work has aiready started and the building is

expected to be finished by summer 1988. Apex Plaza will comprise four seven-storey buildings, surrounding a light and spacious atrium. The build-ings have been designed to inter-link so that they can be occupied as a whole or individually.

The central atrium will

The central atrium will incorporate water features, four wall climber lifts — plus another eight high speed lifts — and extensive interior landscaping. Air conditioning will be provided throughout the building by a VAV modular system, enabling indivi-

Lower elevations of the building will be clad in greybuilding will be clad in greypink granite and above street
level, the offices will feature
alternating bands of silverpink aluminium panels and
blue glazing — designed to
blend with the Reading
station development itself.

A covered walkway will
link the Apex Plaza at concourse level with the station.
The Plaza building incorporates basement parking for 150
cars and a further 350 spaces
are exclusively reserved within the station's own multistorey car park.

### South Wales road link

JOHN LAING CONSTRUCTION (Civil Engineering Division) has recently started work on three major civil engineering contracts, together worth nearly f12m. The largest, worth f6.7m, is for a by West Glamorgan County recently started work on three major civil engineering contracts, together worth nearly £12m. The largest, worth £6.7m, is for a new estuarial river crossing at Loughor in South Wales, which will eventually form part of a much needed direct road link between Swansea and Llanelli. The contract—which runs for 130 weeks—calls for a road bridge of a composite steel and concrete construction, with permanent large diameter bored piles and cofferdams within the estuary. It

Council.
In Portsmouth, Laing has started work on a £3.7m contract for Hampshire County Council.

The 104-week contract involves the construction of a three-span flyover and pedestrian subway at Rudmore, Portsmouth. Also included in the contract is the construction of reinforced earth cofferdams within the estuary. It retaining walls with associated

roadworks and services.

The third contract has been awarded by British Rail Eastern Region, who are carrying out work on behalf of Essex County Council for £1.4m. It involves the construction of the Braintree bridge, a two-span steel and con-crete bridge with a composite steel and concrete deck on piled foundations together with advance roadworks for the future Braintree by-pass and a distentive sion. The client will be acting as the consulting engineer during the 63-week construction period.

### **Manchester Airport order** for Balfour Beatty

BALFOUR BEATTY has been awarded six contracts in both the civil engineering and building sectors. At Manchester Airport, Balfour Beatty Construction will Bairour Beauty Construction will undertake a £3.9m contract to construct aircraft stands extend-ing to 69,000 sq metres in pave-ment quality concrete, 350 mm thick, to be laid by paving train. The scope of work includes earth-works, drainage, apron and high-mast lighting.

Humberside County Council is the client for a £2.8m contract for the reconstruction of 5 km of four-lane motorway in continuously reinforced concrete pavement to be laid by paving train. The work, which includes 2 km of black top construction, commenced in early July for completion in five months.

On the M62 near the Burton-On the M62 near the Burton-wood Service Area, Balfour Beatty has received an order for the reconstruction of defective

TENDERS MUST BE LODGED AT THE BANK OF ENGLAND, NEW ISSUES (K), WATLING

STREET, LONDON, EC4M 9AA NOT LATER THAN 10.00 A.M. ON WEDNESDAY, 30TH JULY 1986, OR AT ANY OF THE BRANCHES OF THE BANK OF ENGLAND OR AT THE

GLASGOW AGENCY OF THE BANK OF ENGLAND NOT LATER THAN 3.30 P.M. ON

ISSUE BY TENDER OF £400,000,000

2½ per cent INDEX-LINKED

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PAYABLE AS FOLLOWS:

INTEREST PAYABLE HALF-YEARLY ON 26TH JANUARY AND 26TH JULY

10 January 1903.
7. The amount due on repayment, per £100 nominal of Stock, will be £100 multiplied by the Index ratio applicable to the month in which repayment takes place. This automat, expressed in pounds sterling to four places of decimals rounded to the nearest figure below, will be aunounced by the Bank of England not later than the business day ununchantely preceding the date of the

Interest will be payable half-yearly on 26th January and 26th July. Income tax will be ducied from payments of more than £5 per annum, Interest warrants will be transmitted by

11. The rate of interest for each interest payment other than the first, expressed as a percentage in pounds sterling to four places of decimals rounded to the nearest figure below, will be announced by the Bank of England not later than the business day immediately preceding the date of the previous interest payment.

On Monday, 8th September 1986 Balance of purchase money

£40.00 per cent

areas of the wearing course which will be achieved by over-laying the existing carriageway with flexible material. The £1.1m contract will be completed in 60

Balfour Beatty Building has received three substantial contracts. At Talbot Road, Trafford, Manchester, the company will construct the new headquarters for the North West Electricity Board. The development com-prises a reinforced concrete-framed three-storey office block of 9,767 sq metres a steel-framed two-storey sports building of 555 two-storey sports building of 555 sq metres, a single-storey garage/
workshop and a substation/
switchroom, together with extensive external works and drainage.
The Territorial Army Volunteer Reserve Association of north-west Eugland and the Isle of Man has awarded a contract to build a training centre at

to build a training centre at Childwail Valley Road, Liverpool,

### City of London offices plan

SIR ROBERT MCALPINE & SONS has won a contract worth over £5m for the construction of two office buildings in Leadentwo office buildings in Leadenhall Street and Mitre Street for Leadenhall Development Co. Work has begun on a six-storey office block with basement, lower ground floor and roof level plant room in Leadenhall Street at the junction with Mitre Street. Construction will be of structural struction will be of structural striction with one or structural steel frame with steel trough suspended fhoors with concrete infill. External finish will be granite-faced precast concrete panels and curtain walling

Work will commence shortly Work will commence shortly on the second office block to be built on an adjoining site in Mitre Street. The four-storey building with lower ground floor and roof level plant room will be of reinforced in-situ concrete frame construction with brick cavity walls on bored piles and reinforced concrete ground beams and slabs.

# will be allowed on such payment. Interest may be charged on a day-to-day basis on any overdue amount which may be accepted at a rate equal to the London Inter-Bank Officerd Rate for several day deposits in sterring ("LIBOR") plus I per court per annum. Such rate will be determined by the Bank of England by reference to market quotations, on the due date for the relevant payment, for LIBOR obtained from such source or sources as the Bank of England shall consider appropriate. Default in the payment of any amount in respect of the Stock will render the allotment of such Stock lable to cancellation and any amount previously paid liable in forfeiture.

21. Letters of alloument may be split into denominations of multiples of £100 on written request received by the Bunk of England, New Issues, Watting Street, London, £C4M 9AA no any date not later than 4th September 1986. Such requests must be signed and must be accompanied by the letters of allouncest. letters of allotment.

22. Letters of allotment must be surrendered for registration, accompanied by the

23. Letters of allotment must be surrendered for registration, accompanied by a completed registration form, when the balance of the purchase noney is paid, unless payment in full has been made before the due date, in which case they must be surrendered for registration not later than 3th September 1986.

380 September 1986.

23. Until the close of business on 29th December 1986, Stock issued in accordance with this prospectus will be known as 2½ per cent Index-Linked Treasury Stock, 2016 "A". The interest due on the control of the custing 2½ per cent Index-Linked Treasury Stock, 2016 and on holdings of "A" Stock as at the close of business on 25th December 1986; consequently, interest mandates, authornies for income tax exemption and other notifications recorded in respect of holdings of existing Stock will not be applied to the payment of interest due on 26th January 1987 on holdings of "A" Stock.

The last day for lodgement at the Bank of England of transfers for registration as "A" Stock be 22nd December 1986. After this date, for purposes of certification, the "A" Stock will not distinguished from the existing 23 per cent index-Linked Thransony Stock, 2016. From the

THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND are authorised to texture the control of the shore Stock.

The principal of and interest on the Stock will be a charge on the National Loans Fund, with are to the Cansolidated Fund of the United Kingdom.

The short will be reastered at the Bank of Fendand on at the Bank of Linguist Control of the United Kingdom.

recourse to the Consolidated Fund of the Unsted Kingdom.

4. The Stock will be registered at the Bank of England or at the Bank of Ireland, Belfast, and will be transferable, in multiples of one penny, by instrument in writing in accordance with the Stock Transfer Act 1963. Stock registered at the Bank of England held for the account of members of the Central Gills Office Service will also be transferable, in multiples of one penny, by exempt transfer in accordance with the Stock Transfer Act 1963. Stock registered at the Bank of England held for the account of members of the Central Gills Office Service will also be transferable, in multiples of one penny, by exempt transfer in accordance with the Stock Transfer Act 1982 and the relevant subordance legislation. Transfers will be free of stamp duty.

5. If not previously redeemed under the provisions of paragraph 14, the Stock will be repaid on the properties. The value of the principal on repayment will be repaid to the terms of the properties, to the curve of the principal on repayment will be repaid to the transfer and that, in the properties of the office of the Stock, of the United Kingdom.

6. For the Alley Company of the constant and the statement issued by Her Majesty's Treasury on 29th May 1985 which discussed in the interest of the orderly conduct of fiscal policy, neither Her Majesty's Treasury on 29th May 1985 which discussed is stated that in the interest of the orderly conduct of fiscal policy, neither Her Majesty's Treasury on 29th May 1985 which discussed in the interest of the orderly conduct of the orderly conduct

BANK OF ENGLAND
For the purposes of this prospecies, the Index figure applicable to any month will be the
England State of the property of the purposes of the property of the purposes of the property of the

THIS FORM MAY BE USED **TENDER FORM** 

This form must be lodged at the Bank of England, New Issues (E). Watting Street, London, EC-649 9AA not later than 18,00 A.M. ON WEDNESDAY, 20TH JULY 1985, or at any of the Brunches of the Bank of England or at the Glangew Agency of the Bank of England not later than 3.30 PM. ON TUESDAY, 29TH JULY 1986.

### 2½ per cent INDEX-LINKED TREASURY STOCK, 2016

previous interest payment.

12. If the Index is revised to a new base after the Stock is issued, it will be necessary, for the purposes of the preceding paragraphs, to calculate and use a notional Index figure in substitution for the Index figure applicable to the month in which repayment lates place and/or an laterary payment Balls due Che month of payment? This notional Index figure will be excludated by multiplying the actual Index figure applicable to the month of payment by the Index figure and old base for the month on which the revised Index is based and dividing the product by the new base figure for the same months. This procedure will be used for each occasion on which a revision is made during the life of the Stock. TO THE GOVERNOR AND COMPANY OF THE BANK OF ENGLAND

A PRICE BEING STATES WILL BE RESCRIBED.

16. A separate charge representing a deposit at the rate of £40,00 for every £100 of the NOMINAL amount of Stock tendered for must accompany each tender; charges must be drawn on a bank in, and be payable in, the United Kingdom, the Changel Islands or the Isle of Mark.

17. Tenders must be for a minimum of £100 seminal of Stock and for muttiples of Stock as

is so assessment will be made for a less amount than £100 Stock. In the event of partial point, the balance of the amount paid as deposit will, when refunded, he remated by cheque siched by post at the ruk of the lenderer, if no allotment is made the amount paid as deposit he returned likewise. Payment in full may be made at any time after allotment but no descount

ISSUE BY TENDER OF £400,000,000

on twee for the same month. This procedure will be used for each occasion on which a revision is made during the first of the Suck.

13. If the fadex is not published for a month for which it is relevant for the purposes of this prospectus, the Bink of England, after appropriate consultation with the relevant Government. Department, will publish a substitute Index figure which shall be an estimate of the Index figure which shall be used for all purposes for which the serial index figure which shall be an estimate of the Index figure which shall be used for all purposes for which the serial index figure which shall be an estimate of the Index figure which shall be used for all purposes for which the serial index figure which shall be used for all purposes for which the serial index figure which shall be used for all purposes for which the serial index figure shall be conclusive and busing upon all stockholders. No inherent index figure shall be conclusive and busing upon all stockholders in the figure which would have been applicable to the month of payment.

14. If any change should be made in the event of subsequent publication of the Index which is not exclusive the been sponded to the interests of stockholders. Her Majesty's Treasury will publish a notice in the London. Education and Behinst Genetic months of the Bank of England, countinues a fundamental change in the Index which has not propagated to the Index shall be concentrated by the relevant Government Department of the change, informing suchholders and offering them the right to require the Majesty's Treasury in Stockholders, Her Majesty's Treasury in Genetic months from the last month of publication of the old. Index. The amount of Stock tendered for such bears of the Index action applicable to the month of payment has contained on the bears of the Index action applicable to the month of payment has contained in the old lader. The amount of the change informing such has been proposed this paragraph, respayment to suchholders and the special payment 2 AMOUNT OF DEPOSIT (a) 3. TENDER PRICE (b) I/We request that any letter of allotment in respect of S
post at my/our risk to me/us at the address shown below. SIGNATURE July 1986 of, or on behalf of, tenderer PLEASE USE BLOCK LETTERS FORENAMEIS) IN FULL FULL POSTAL POST-TOWN COUNTY

# Measuring life companies' strength

FOR DECADES, life assurance salesmen marketing traditional life and pension contracts have assumed that long-established

mutual life companies were financially rock solid. As such, intermediaries felt As such, intermediaries feit there was no need to investigate the financial state of such life companies when recommending their products. The choice of company was usually made on the basis of which company could produce the highest projected maturity value.

jected maturity value.

The problems of United Kingdom Provident Institution earlier this year, however, have shown that a long-established mutual life company is as cap-

able of running into financial difficulties as a newly-formed, linked-life company.

One less: from the UK Provident saga was that the Department of Trade and Industry, the insurance industry watchdog. cannot intervene early enclish in the affairs of a life company

in future benefits.

Intermediaries are now realising that they have to carry out some check on the financial health of those life companies whose products they recommend to clients. Indeed, under the financial services legislation such a check may be obligatory under the conduct of business rules that apply to inter-

to keep it operating as a going concern and avoid any cutbacks

than done, as the British Insur-ance Brokers' Association—the

trade association of registered insurance brokers — has discovered.

covered.

Its Life and Pensions Committee has been investigating the methods by which its members could assess the financial strength of life companies from the information they publish.

Not surprisingly, it has run into all sorts of problems.

Basically intermediation are Basically, intermediaries are

looking for some straight-forward measure that sums up the financial strength of a life company, such as the level of free reserves—the percentage excess of assets over liabilities in a life company's funds.

The responsibility for monitoring the financial health of a life company rests with its appointed actuary. Under insurance company legislation, appointed actuaries are required to yellow the executive and required to value the assets and Eabilities of life and pension funds every year and to com-ment on the matching between assets and liabilities. However, providing they can certify that the funds can

format in the presentation of a life company's valuation results. Each particular valuation will reflect the individual However, this is easier said views and judgment of its han done, as the British Insurappointed actuary.

matters, is rather lukewarm on the idea.

the idea.

It pointed out to BIBA that interest, the rate of expansion the use of one figure, and a rather nebulous figure at that, to assess a life company's financial strength is highly misleading.

In the unavoidable factor facing BIBA is that assessing a life company's financial strength is highly misleading.

example.

The actuary of company A takes a cautious view in his assumptions and this results in a higher value being placed on the liabilities. The actuary of company B takes a more optimistic view and his valuation produces a lower figure for liabilities. liabilities.

When the liabilities are compared with the value of the assets, company B would appear to have a higher free reserve ratio than company A because its actuary has taken a more can certify that the funds can meet the minimum legal solvency margin, appointed its actuary has taken a more actuaries have considerable optimistic view rather than able to intermediaries.

feedom to use their probecause the company is fessional judgment in making stronger. Some of the reserves would have to be provided on in company A are contained in the higher value placed on its ing actuarial firm would be indeally placed to do this. A

junction with the valuation assumptions and methods used BIBA has approached the by the actuary.

Association of British Insurers In addition, the actuarial to investigate the possibility of life companies producing standard valuation procedures. their free reserves and other financial statistics.

However, the Life Insurance Council of the ABI, the arm which looks after life assurance financial strength of a life company. These include the asset mix between equities and fixed

leading.

It quoted the following strength requires a technical example.

The actuary of company A provide.

While the leading life brokers could afford to employ such technicians in their research departments, the pro-vincial high street broker cannot.

One possible solution would be for a central organisation with the available expertise to rate life companies according to

liabilities.

The ABI points out that the assessment of the free reserve ratio has to be assessed in contract the state of the free reserve ratio has to be assessed in contract the state of the free reserve ratio has to be assessed in contract the state of the free reserve ratio has to be assessed in contract the state of the free reserve ratio has to be assessed in contract the state of the free reserve ratio has to be assessed in contract the free reserve ratio has to be assessed in contract the free reserve ratio has to be assessed in contract the free reserve ratio has to be assessed in contract the free reserve ratio has to be assessed in contract the free reserve ratio has to be assessed in contract the free reserve ratio has to be assessed in contract the free reserve ratio has to be assessed in contract the free reserve ratio has to be assessed in contract the free reserve. provide a service free to members without the necessary expertise.

### APPOINTMENTS **BUSINESSMAN'S DIARY**

# Reorganisation at **Dixons Group**

Following the appointment chairman of International Miliciare as managing director of tary Services and a director of Dixons Ltd, DIXONS GROUP has made the following promotions and appointments. Mr Nick Lightowier, purchasing director of Currys, has also been appointed group purchasing director and a director of Dixons Group management. Mr David DIXTULERS AND Control of Dixons director. Mr Shephard has been appointed group purchasing director. Mr Shephard has been appointed group management. Mr David DIXTULERS AND director and a director of Dixons director. Mr Shephard has been appointed group management. Mr David DIXTULERS as finance director and a director of Dixons director. Mr Shephard has been appointed group management. Mr David DIXTULERS AND director of Dixons director dire roup management. Mr David Gilbert, senior marketing manager, has been promoted to marketing director of Dixons Ltd after starting his career at Dixons Ltd as a product manager. Mr Dale Heathcote has been appointed a director of Dixons

Stores Group Far East, where he is presently general manager, following the opening of Dixons Taiwan office and the imminent Taiwan office and the imminent opening of the Korean office. Mr Tony Djgnum, in addition to being director of corporate planning, has been made managing director of Dixons Financial services. Mr Mark Rogers, group financial analyst, has been promoted to financial director of Dixons Financial Services. Mr Chris Paviosky has been elected to the new position of production to the new position of production director of Mastercare. Mr David Hamid has been appointed to the new position of marketing director of Mastercare. Mr Brent

JOHNSON MATTHEY has appointed Mr Ketth Walley as deputy chairman. He joined the Johnson Matthey board as a non-executive director on March 27 1985. He was formerly managing director of Shell UK and Shell



Mr David Shephard has been appointed to the board of INTER-NATIONAL DISTILLERS AND VINTNERS (UK) as finance director. Mr Shephard joined IDV (UK) in May 1983 as finance executive with particular responsibility for management accounting and strategic planning.

Mr Antony Northrop has been appointed to the executive committee of the board of SWISS BANK CORPORATION INTER-

Mr C. T. Nexte of Smythson has been elected vice chairman of the BOND STREET ASSOCIA-

SHIRE TRUSTS has appointed Mr Kenneth Kench as head of its Treasury operation. He joins from Butler Treasury Services (a divisition of Butler Till Money-brokers) where he was a director responsible for developing the OTC interbank currency options market. options market

director of Mastercare, Mr Brent Wilkinson, a director of Dixons
Ltd, has resigned.

\*

JOHN BETTS REFINERS has made Mr Alec Tiley its commercial director. He was commercial manager.

\*

At UNITED BISCUITS (HOLD-last page)

THE ROYAL INSTITUTE OF BISCUITS (HOLD-last page)

International Autumn Fair (01
BUSINESS AND MANAGEMENT CONFERENCES

September 9-10

Times Comferences: Countertrade trends — prospects and challenges in the Asia-Pacific region (01-246 4444)

At UNITED BISCUITS (HOLD-last page)

At UNITED BISCUITS (HOLD-INGS) Mr Charles A. Fraser has been appointed non executive vice-chairman. Mr Fraser, a partner of W. and J. Burness WS, has been a non executive director of United Biscuits (Holdings) since 1977.

Mr Chris Beckett and Mr Bill Shiplee have been appointed joint managing directors of UNITED TRANSPORT CON-TAINER HOLDINGS. Each remains managing director of their respective operating com-pany — IFF (International Ferry

Mr Peter Beauett, managing director of FURNESS WITHY TERMINALS, is to take up an appointment with the Tung-related American-Hawaii Cruises related American-Hawaii Cruises
Inc of San Francisco, US, as
executive vice president and
chief operating officer. Mr Derek
Harrington, chairman of Furness
Withy (Terminals) and Walton
Container Terminal, Felizatowe,
will assume the additional
responsibilities of managing
director of both organisations.

### UK TRADE FAIRS AND EXHIBITIONS national Foundry Exhibition:

July 29-August 3

August 17-19
International Craft and Hobby
Fair (04262 72711)
Wembley Conference Centre
August 31-September 2
International Jewellery Exhibition (0935 20721)
Wembley Conference Centre
September 5-6
Verancies in systems and information technology — VISIT '86
(01-840 714.7)
Hotel Inter-Continental, WI
September 9-12

tion (0935 20721) September 1-5 Castings and Forgings Exhibi-tion; Furnaces Exhibition; Inter-WORLD FREIGHT (01-642 7688)

**OVERSEAS TRABE FAIRS** 

705 6707) Xismen International Autumn rear twiAugust 20-23 977 4551) Vlema
Office Technology and Computer September 17-24
International Engineering Fair
(021-455 9600) Brno
August 22-31
Enternational Trade Fair (Consumer Goods) — INT SKANEMAASSAN (01-486 1951) Malmo
August 26-28

August 26-28

International Autumn rear twi977 4551) Vlema
College 19-24
International Rogineering Fair
(021-455 9600) Brno
September 23-28
(01-968 4567) Guanghou
August 26-28

Contember 30-October 4

ust 31-September 6

1355) Hotel Inter-Continental, W1
1359 Hotel Inter-Continental, W1
724 0020)
September 15
Copper Development Association:
in water—a national seminar to Aluminium bronzes for industry The Roebens Institute: Hazards Copper Development Association: in water—a national seminar to discuss the implications for (0707 50711) in the water cycle Curvendish Conference Centre, Wise September 45 Marriott Hotel, Wise September 4617 Creative markets (01-236 3288) September 16-17 Fuel and Metallurgical Journals: Grosvenor Rouse Wise September 100 power generation

July 29-Angust 3
British Music Fair—MAKING
Metallurgical Plant Exhibition;
Metallurgical Plant

Angust 7-10
Collectors Fair for Antiques and Genorabilia (021-780 41/1)
NEC, Birmingham
August 17-10

September 24
Coll Winding International Exhibition (0202 743906)
Well-ber Conference Centre

Z1)
Barblean Centre
International Freight Industry
Conference and Exhibition —

August 17-22
City Planning Exhibition (021No. 6707)
Xismen September 10-14
International Autumn Fair (01977 4551)
Vienna

Fair--INTERTOOL (01-977 4551)

Angust 13

Management Training Consultants: Successful supervision (Leicester 27062)

Angust 26-28

FT Conference: World aerospace to the end of the century (01-621 1355) Hotel Inter-Continental, W1

Angust 28-29

September 11

SFS: Stress (01-736 0134)

The Royal Garden Hotel, W3

September 15-16

GDI International Conferences: Intelligent buildings (Zurich 01 724 0020)

Zurich September 15

Gressenor Rouse, WI Independent power generation conference and exhibition IN Institute for Personnel Manage-POWER 86 (0737 68611) ment: Personnel statistics (01-946 9100) Embassy Hotel, W2 Frost and Sukiwan: Introduction M.S. Conference Studies: Market to OSI and its support for research for retail property—the message handling systems (01-message handling systems (01-current state of the art (01-935 935 4433) Regent Crest Hotel 2382) Cafe Royal, W1

Anyone wishing to attend any of the above events is advised to telephone the organisers to ensure that there has been no change in the details published.

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### **COMMERZBANK AKTIENGESELLSCHAFT** Frankfurt/Main

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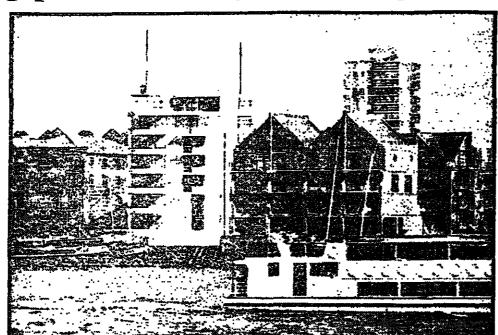
### Architecture/Colin Amery

# A young practice ready for a large commission

The need for new younger firms of architects to establish themselves to meet the rising tide of demands for architects' services is a pressing one. The profession seems to have reached a curious point — there is plenty of work for established architects who can provide the back up necessary to take on largish commercial jobs, but there are also maker are see the commercial contacts. there are also major gaps. One is for firms with the whole range of expertise; mechanical serrices, engineering and design skills under one corporate umbrella. In Britain the out-standing example is Arup Associates, with firms like GMW, Building Design Partnership, YRM and a few others running behind. The other gap is the small firm (say up to 20 designers) that has outstanding design skills but is also competent to provide all the technical follow up.

The peculiarly British weakness is this lack of technical expertise accompanied by design brilliance in the smaller firms. One of the newer small practices showing distinct signs of promise is Troughton McAslan, Jamie Troughton and John McAslan, both worked for John McAslan, both worked for Richard Rogers and Partners— of Lloyds fame—and both left to set up a small practice in

the Institute of Management Office of the Year Award in 1985. A warehouse in Shepherd's Bush was turned into offices on a fast track system in only ten months. A factory that is now some 50 office suites was also one of their recent jobs,



A photomontage of the proposed new riverside apartments by Troughton McAsian in London's Rotherhithe

den Mablerian irruptions or re-

Perhaps this is a compromise with "symphonic" ideals, or

perhaps further hearings will discover tougher structures; or

again, Rattle's apparently keen

to set up a small practice in 1983.

The bright blue exterior of the newly converted car show-building was reclad with a conversion has the newly converted car show-building was reclad with a conversion has to building was reclad with a conversion has now become a local land-mark as the headquarters of the great air ducts on the ceiling has a limited of the conversion has achieved an overall high specially designed screen of the inconsistant of the inconsistant of the newly converted car show-building was reclad with a conversion has to building was reclad with a conversion has to building was reclad with a conversion of the inconsistant of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the inconsistant of the newly converted car show-building was reclad with a conversion of the ceiling has a limited on the ceiling has a limited of the newly conversion of the conversion of the ceiling has a limited of the newl

occupies an extremely awkward site, on a busy crossroads and decking over the main railway line into Euston Station.

The best thing about the design is the way the architects have transformed the interior straight wall, and the contrived to the conversion of some offices from a 1910 warehouse in a london suburb is more larly the junction of the curved and an almost Japanese style entrance facade with the higher transformed the interior straight wall, and the contrived to the conversion of some offices from a 1910 warehouse in a london suburb is more larly the junction of the curved and an almost Japanese style entrance area. For this client transformed the interior straight wall, and the contrived to the conversion of some offices from a 1910 warehouse in a london suburb is more analysis.

Royal Academy.)

The proposal illustrating this article is one of the most interesting residential developments being considered for Rotherhithe in London's Dockland. It is an intriguing example of the way younger example of the way younger firms of architects are already raiding the repository of recent history to produce new buildings. This block of flats, with its curved glazed turret, sweeps of rendered wall planes and curved metal balconies, owes a great deal to the 1930s. It is a hold move to suggest It is a bold move to suggest putting a new building in this manner into a principally brick, slate and tile area. It could provide the kind of spirited contrast that London's riverside

There is indeed an ironv here. To build in a 1930s-revival style alongside the solid examples of the functional tra-dition in the form of dock warehouses suggests almost a sending up of the idiom. The final design is under scrutiny in Dockland, and I would suggest that it is a refreshing and powerful antidote to the dolls' houses that have so far been welcomed by the authorities, almost as the residential norm for new buildings.

For a young firm Troughton McAslan have a fashlonable preoccupation with the recent past. For them the styles of the 1930s are already just another historical source. Their adapta-tion of the "adhocism" of the 1970s is clearly where their development lies and I am sure that they are going to achieve a breakthrough of serious originality. They are ready for into one large volume with a reception area with its strangely an interesting new lighting fit that next stage—a large commentral bank of internal offices temporary look, can probably ting to provide up-light from mission and a bold client who with a design studio above that be put down to the economy of metal bowls. (An example of will allow the well-nurtured is well lit from clerestory win
the reception area with its strangely an interesting new lighting fit that next stage—a large commission and a bold client who with a design studio above that be put down to the economy of metal bowls. (An example of will allow the well-nurtured in the summer seeds already planted to grow.

### Sons of Ulster/Hampstead Theatre

### Michael Coveney

with a tricolour.

They come from Derry
Coleraine, Tyrone and Enniskillen, united in the Ulster
cause but for different reasons.

Observe the Sons of Ulster Marching Towards the Somme by Frank McGuinness was a startling and memorable highlight of last year's Belfast Festival. Michael Attenborough's revival at Hamptead to just are youngeful critical. is just as powerful, gaining histrionic strength in the poetic bonding scene among eight volunteers of the Uister Division before they embrace death in the Loyalist cause at the

On one level, this is a classic variation on the barrack room play. But it is also a resonant investigation of the motives which drove the Ulstermen to fight not so much the Hun as fight not so much the Hun as the Fenian on foreign soil. Mr McGuinness is a Catholic writer from Donegal and his play was first seen at the Abbey last March before travelling north. Republicanism always has a good shout in the theatre. But the Easter Rising was followed three months later by this catastrophe in which the Protestants marked their Union sealed with blood.

The Ulster flag dominated the Abbey production, a red hand at its centre. Here, the blood of young Pyper, shed by a fruit knife, makes the point

The Ulster flag dominated the Abbey production, a red hand at its centre. Here, the blood of young Pyper, shed by a fruit knife, makes the point as effectively. Old Pyper (John Rogan), an Armagh farmer, conjures the ghosts of the past and commands them to dance in the Temple of the Lord. The grey misty setting designed by Dermot Hayes is invaded by the volunteers, among whom Pyper, as played by John Bowe.

battle, the Battle of the Boyne is re-enacted in Indicrous horse-play. King Billy denying the script by clattering to the ground. The smell of the Somme the small of the rivers the one who will survive, is a mysterious and satirical party, boasting of fair skin for a man and marriage to a three-legged Papist whore in Paris whom he murdered. ground. The smell of the rivers back home, the jump to oblivion a corporate foolhardy act both actual and symbolic. In a scene of high ritual, hymns are sung, bayonets fixed and Orange sashes exchanged. The formulation of fanaticism is examined in the case of the former preacher Roulston, the former preacher Roulston, a loping, incipiently psychotic bundle of guilt in Dermot Crowley's fine performance; also in the raucous Belfast Orangemen of Ciaran Hinds and Ian McElhinney—the latter's visit to the Front has left him pining for the paraphernalia of processions, the chasing of kids who defile the Lodge with a tricolour.

As the Hampstead programme neatly points out, the 70th anniversary of the Battle of the Somme comes six months after Somme comes six months after 250,000 Loyalists marched in protest against the Anglo-Irish agreement. Mr McGuinness's play, one of the finest in the extraordinary playwriting renascence in Ireland, does not preach or gloat. It uses stories about people to meditate upon the deep and real divisions in a nation's society. It is informative and poetic, brave and thoroughly absorbing.

Patrick Mason's fine Abbey production benefited from a large-scale setting, moving out of the little Peacock into the Belfast Opera House. Mr Atten-Belfast Opera House. Mr Attenborough and his excellent cast of nine (three or four from the original) do not shirk the big din or the cry of rage, but they have also unlocked much humour and quiet passion, no mean feat with so Irish a piece in darkest Hampstead.

Ilona Sekacz's sound score takes up the drum's reverbera-

takes up the drum's reverbera-tion, the drone of battle, and Gerry Jenkinson's brilliant lighting creates space among the



Left to right: Reece Dinsdale, Niall O'Brien, Mark Lambert and John Bowe

### Henze's Seventh/Albert Hall

### David Murray

Fifteen years after his Sixth donse. There is an initial cluck- behaved symphony, without sud-Symphony, Hans Werner Henze has composed a Seventh, which had its British première on Friday by the City of Birming-ham Symphony under Simon Rattle. In obvious respects it has more of a familiar symphony-shape than its prede-cessors, and the sumptuous orchestration testifies to Henze's unflagging inventiveness.

Mahlerian parallels have been widely advertised, but they

was impressed, but puzzled. The Symphony has four solid movements—officially fast-slow-fast-slow, but in fact the finale rapidly acquires urgency, and rises four times to a climactic rapidly acquires trigency, and total it was easier, however, to Beethoven's Violin Concerto his rises four times to a climactic hear the Barcarola as a magni-howl before a last fortissimo fied La Valse, a luxurious prochord leaves a wan brass afterecho behind. Officially, again, the opening "Dance" movement such plain theatrical guideposts. See thoward disaster. The seventh Symphony doesn't offer imposing dignity—and much stopping is in proper sonata-form; but For dramatically that counts for far Henze's earlier standards, is first movement—than the conture and diction: each evolves his committed, sweet-natured tinuous effect of baleful poème very steadily, as in a well-musicianship.

bican this autumn consists of six new productions, three of

In the main theatre, a revival

RSC's autumn season in London

The Royal Shakespeare Com-pany's new season at the Bar-toire until March 1987.

of Shaw's comedy, Misalliance, Arthur Miller's The Arch-directed by John Caird, opens bishop's Ceiling, written during the season on October 8, to be the aftermath of "Watergate"

ing and quacking of bassoons, truculent and slightly mechanithrob propels the music, as if it were a new draft for the Maenadic rites of The Bas-

The slow movement is all reading may prove to have post-Romantic espressivo lines, underplayed some dramatic calmly agonised (Mahlerian surface, but much more ambiguous likely, given his sterling work drift). The rough Scherzo has a sullen tread, soon softened a sullen tread, soon softened have seen Webern's op. 1 Passand distanced by bland repetitions of melodic tags like before now, but this time one "systems music." Like Henze's leard it: Rattle took it to febrile 1979 Raggaranda the finale rocks each movement.

In the Pit two American

premieres; Principia Scrip-toriae by Richard Nelson, and Arthur Miller's The Arch-

1979 Barcarola the finale rocks extremes with utter sympathy, gently and insidiously, as if and at last it made its proper betokening the coming desolation; it was easier, however, to Beethoven's Violin Concerto his arriving flat at too notes: but one forgave even his inordinate less-quite unlike any Mahler peculiarly homogeneous in tex- Paganinian cadenza because of

### Lemmon's London stage debut

Jack Lemmon is to make his first stage appearance in London at the Theatre Royal, Haymarket, from August 4 to October 4 in Eugene O'Neill's play Long Day's Journey Into Night. Last seen in the West the season on October 8, to be joined by Scenes from a in 1977.

Marriage, three of Georges The third premiere is of Feydeau's farcical one-acters combined in a new translation by Peter Barnes, directed by Terry Hands. A Penny for a Song by John Whiting, last seen in London in 1962, is the third play for the main house.

the aftermath of Watergate in 1971 National Theatre production, this production was originally seen on Broadway. It will be presented by Duncan C. Weldon and Triumph Apollo, directed by Susan Todd. These three plays Jonathan Miller, designed by Tenty Tony Straiges and with Bethel third play for the main house.

### Raymonda/Covent Garden

### Clement Crisp

The second performance of a sweet vivacity and enthusiasm the Bolshoy Ballet's Raymonda on Friday night, with Nina immediate, delightful appeal. Ananiashvili as the heroine, confirmed the excellent impression inexperienced could be seen in that the production made on the final act, where a sense its first appearance last week. of physical excitement lacked something in an ultimate grandeur, but in every other way this was an enchantingly fresh account of the rule, and Yury Grigorovich has relocated certain numbers and adjusted the plotting, so as to introduce the hero, Jean de Brienne, at the start of the ballet instead of having him merely a presence in a vision scene until near the end of the second act, and The casting was, otherwise, much as on the first night, with Yury Vasyuchenko a very correct Jean de Brienne, and brings thereby some slight and much needed increase in dramatic sense. In every other respect, Grigorovich has been content to let the dance speak with untiringly excellent accounts of solos and en-sembles: in everything the Bolshoy's artists believe in of the old ballet's traditional language and attitudes, and speak it does most eloquently.
Raymonda has never won any prizes for cogency, and its central role is more bland even than Aurora. All the more reason, then, to comprehend the

All the more Glazunov score by the Sadler's Wells Royal Ballet orchestra ballet as one of the greatest under Alexander Lavrenyuk. In challenges for a ballerina, who earlier Bolshoy seasons we must bring the choreography to life with only the merest On his retirement from dancing he trained as a musician, and in every ballet I have heard him conduct his understanding and colour her dance characterisation. Hence the dazzling interest and power of Lyudmila Semenyaka's initial perfor- of both music and dance has mance, so rich in dynamic meant that performers are nuance, the life of the dance where necessary, nursed nuance, the life of the dance where necessary, nursed become the life of the role through variations with sup-(instead of the customary reportive tempi, without the
verse situation), and hence also
music's life being vitiated by
the charm of Nina Ananiashvili's
dancers' caprice. In his perinterpretation on Friday night. formances music and dance Ananiashvili, lately winner of a gold medal at the Jackson Ballet Competition, is young, with dark-eyed Georgian love.

New ENO cl

New ENO chairman liness, possessed of exceptional elevation and beautiful phys-The Earl of Harewood will

### La Sylphide/Coliseum Clement Crisp

under all the local colour and what they do, and we are kilts and acreage of white tarla-forced by their integrity and energy to share their belief. | told. It is a narrative which is Mention much be made of an Ur-text of Romanticism as it is to live in the theatre, it is ideal love could tinge the the excellent playing of the we watch the fine fever of not because of Romantic quaint-James torn between reality and ness, but because of the urgency dream, and destroyed because with which the drama is shown dream, and destroyed because

a little odd in that it is a wholly untypical example of the choreographer's dramatic thinking. Yet survive it does, and if

under Alexander Lavrenyuk. In earlier Bolshoy seasons we remember Lavrenyuk as a distinguished character soloist. On his retirement from dancing he trained as a musician, and in every ballet I have heard him conduct his understanding of both music and dance has

At the heart of La Sylphide, and the ballet's survival is not villian in style-but emotional tension was at a premium. The narrative thus lost its essential momentum, and neither the sylphide's child-like wilfulness

For drama we had to look to Alexander Grant as a Madge

### BBC Welsh SO/Albert Hall

### **Dominic Gili**

A brief note of welcome for teams. The strings are rich and experienced something of an the excellent BBC Welsh warm-toned; the wind (and artistic renaissance — was the Symphony Orchestra, who played Thursday's Prom under their chief guest conductor Maris Yansons. They are an exceptionally strong band these ique.

Raymonda presents no technical problems for her, and she sails through the ballet with sails through the ballet with series in September of all the BBC's orchestral

warm-toned: the wind (and especially the woodwind) quick and responsive. They broadcast regularly: their programmes (though not particularly particularly adventurous) are worth searching out.

an eloquent and smoothly textured account of Chaikovtextured account of Chaikovsky's Romeo and Juliet overture,
and ended the evening with a
roundly sonorous, ripely
(though never over-ripely)
romantic performance of
Sibelius's first symphony. John
Lill meanwhile—who like the
BBC Welsh has also recently

artistic renaissance soloist in Prokofiev's second piano concerto.

I liked his reading a lot: by turns glittering and darkly serious, in the second movement catching just the right weighty, They opened the Prom with half-jocular accents. He attacked the finale with plenty of tough-ness, rhythmic and tonal, with-

# "What's special about these Danish companies?"

ABN Bank Copenhagen Branch, Assurander-Societetet, Barclays Finans A/S, Berlingske Tidende, Bikuben, Boliden, Buch+Deichmann, Danish Steel Works Ltd., Danish Telecom International A/S, Danish Turnkey Dairles Ltd., Dannebrog Shipyard Ltd., A/S De Danske Stukkerfahrikker, Domi A/S, Duracell-Dairnon ApS, East Asiatic Co. Ltd. (A/S Det Østasiatiske Kompagni), A/S Elizabeth Arden, Ess-Food, F. L. Smidth & Co. A/S, Forlaget Menagement A/S, Frisko Sol s A/S, Gränges Danmark A/S, Grundfos International A/S, Heldor Tenede A/S, Language Danmark A/S, Grundfos International A/S, Haldor Topsee A/S, Hellerup Bank A/S, Henriques Bank Aktieselskab, Kreditforeningen Danmark A/S, Kommunedata, Midiberik, A/S Niro Atomizer, Norsk Hydro Danmark e.s., Nykredit, Price Waterhouse, Privatbanken A/S, Revisionsfirmset C. Jespersen, Skandinavisk Tobakskompagni, Statsanstalten for Liveforsikring, The Jutland Technological Institute, Aktiesetskabet Varde Bank.

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01-134441

# Arts Guide

Music/Monday. Opera and Ballet/Tuesday. Theatre/Wednes-day. Exhibitions/Thursday. A selective guide to all the Arts appears each Friday.

Music

Verona: Arena di Verona: Verdi's requiem conducted by Daniel Oren, with the Arturo Toscanini Symphony orchestra and soloists: Cecilia Gasdia, Forenza Cossotto, Veriano Lucchetti and Bonaldo Giziotti (Mon). (25 181).

NETHERLANDS dam, Nieuwe Kerk. Recital of Italian organ music by Gustav Leon-hardt. Frescobaldi, Pasquini, Zipoli.

VIENNA.

Vienna Hofburg Orchestra conducted by Gert Hofbauer. Waltzes and light by Gert Hofbauer. Waltzes and light opera. Konzerthaus (42 800/20 85).

(Tue).

Eduard Melkus, violin. Paul Angerer, organ. Bach. Biber. Michaelerkirche (Mon).

ducted by Otokar Jrhlik. Smetar Arkadenhof (42 800/2085). (Tue). Arksteiniot (2 000/2003). (1916). anacek Philharmonie Orchestra conducted by Hikmet Simsek with Ulvi Cemal, violin. Wagner. Erkin, Dvo-řák. Arksdenhof (Thur).

Stuart Burrows with the Philharmonic Orchestra conducted by Barry Wordsworth with Ann Mackay and Mark Burrows in a concert of songs and arias. Barbican Hall (Wed). Royal Philharmonic Orchestra con-

ducted by Enrique Batiz with Barry

Douglas, piano. Tchaikovsky, Rachmaninov, Sibelius, Grieg and Ravel. Barbican Hall (Mon). (638 8891).

English Chamber Orchestra conducted by Philip Ledger with Vovka Ash-kenazy, piano. Mozart. Barbican Hall (Tue). London Concert Orchestra condu

by Freser Goulding with Ronan O'Hora, piano. Tchaikovsky, Elgar and others. Barbican Hall (Thur).

Maurice Gendren, cello, David Bras-lawsky, piano: Beethoven, Bach, Faure, Debussy (Mon 7pm). Auditor-ium des Halles, 5 Porte Saint-Eus-technical des Company (Mon 7pm).

Jesu-Claude Pennetier, piano: One Hour with Ohana (Tue 6.30pm). An-ditorium des Halles. Contemporary Chair conducted by Ro-land Hayrabedian: Ohana (Wed 8.30pm). Auditorium des Halles.

Male Cheir Ferenc Liszt conducted by Andres Toth, Gabor Lebotka, organ: Liszt Requiem (Thur 8.30pm) Saint-Merri church. All these concerts are part of the Paris Festival Estival (47 84 90 89). Taped information round the clock in Eninformation round the glish on 47 20–88 98.

**NEW YORK** 

New York Philhermonic: Free concer of works by Weber, Liszt and Brahms conducted by Gunther Herbig and James Conlon will be per-formed on the Great Lawn in CenJuly 25-31

tral Park (Mon) and Marine Park Brooklyn (Tue). Mostly Mozart Festival (Avery Fisher Hall): Tokyo String Quartet with Emanuel Ax piano, Pinchas Zukerman viola. Mozart, Beethoven (Mon): Festival Orchestra. Gerard Schwarz conducting. Osear Shumsky violin. Mozart, Beethoven, Viotii (Wed): Chamber Music Society of Lincoln Center. Mozart, Beethoven (Thur), Lincoln Center (874 2424) (Thur), Lincoln Center (874 2424).

WASHINGTON

nummer Festival (Concert Hail): High-lighted by a visit from the Newport Folk Festival in August, this sum-mer-long string of popular singers and musicians includes recital per-formances from Neil Sedaka, Shirley Bassey, Dionne Warwick and Petula Clark, Ends Aug 27. CHICAGO

Ravinia Festival: Misha & Cipa Dichter piano recital. Mozart, Saint-Saens, Liszt, Schumann, Copland, Infante (Mon); Winton Marsalls trumpet with David Murray Octet jazz recital (Tue); Chicago Symphony conducted by Fdo de Waart with Heinz Hollinger oboe. JS. Bach, R. Strausz. Daniek Ffrank Hickhand Heinz Hollinger oboe. J.S. Bach, R. Strauss, Dvořák (Thur). Highland Park. (728 4642).

Barcelona: Summer Festival Grec 86 offers Orchestre de Jeunes de la Mediterranée with piano accompan-iment by Albert Jimenex Atenelle. Beethoven, Ravel and Xenakis. Basilica de Santa Maria del Mar:

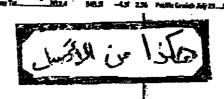
### Serenata/Wigmore Hall

### **David Murray**

If this redoubtable group has a failing, indeed, it is that the lively, full-blooded ensemble attack is not complemented by solo finesse. When exposed, the intonation of single strings was not beyond reproach; and in Louis Spohr's irresistibly winsome Nonet there should have been more elegant detail along with the all-out verve. (The chains of solo semiquaver flourishes in the Allegro, for example, were too flurried to serve as the bright little showoff turns they ought to be.) Prokofiev's op. 39 Quintet made do with broad colour-contrasts well enough, but more fine-drawn If this redoubtable group has

Serenata is a chamber ensemble of flexible size—
extravagantly flexible on Thursday, for they employed 17, players in a programme that used no more than 12 at once. That was for Stravinsky's Conton they becan life as his the evening. Mozart's or Fig. That was for Stravinsky's Concertion, which began life as his 1920 String Quartet and was rewritten for the larger group in 1952. The pairs of trumpets and trombones who called by just for this piece were incisive and bracing, fully as effective as the official soloists on violin and cello, who were efficient but a trifle humourless.

to the most substantial work in the cevening, Mozart's E-flat Serenade for winds. The Mozart was a consistent pleasure—well-judged, well-tuned, sonorous and fresh. It made a lovely noise in the Wigmore, from the rich opening chords to the fleet Finale. In Spohr's Nonet, too, the smaller wind group had a more assured internal balance than their string colleagues. more assured internal balance than their string colleagues, who lacked nothing in energy and high spirits but scored lower on poise. In this piece, the Nash Ensemble doesn't need to look to its laurels you.



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Monday July 28 1986

# The Alliance approach

BRITAIN'S Liberal and Social Democratic Party Alliance last week produced a consultative paper called Partnership for Progress that amounts to a draft manifesto for the next general election. It was dis-cussed at a meeting of parlia-mentary candidates from both parties in London at the weekend and should be in its final form by the end of January.

The paper has already been dismissed by Mr Douglas Hurd, Home Secretary, as a "masterpiece of blandness," which in some ways it is: for example, in its approach to civil nuclear power, which it appears to be neither for nor against. There are also differences within the Alliance over nuclear weapons which, as recent arguments have shown, remain to be resolved and are more or less glossed over in the consultative

glossed over in the consultative paper.

None of that should detract to budgetary expansion to relieve unemployment without being remotely specific. Those are way the Alliance is going about the business of policy formation. It is doubtful whether such civilised and democratic discussions on policy could take place en masse in either the Tory or the Labour Party.

Essentially, what the Alliance is trying to do is to chart a section. They are right.

is trying to do is to chart a section. They are right.

The fact that the Alliance wants to do so much on so many fronts at once tends to the control of the harsher's Conservatism while the stress on market economics by the present administration has been for the good.

The paper says: "The SDP and Liberal Party bring together ideas which the Conservative and Labour parties believe to be mutually exclusive: enter-prise and welfare, a market economy and social justice, economic development and environmental integrity, equality for women and support for the family, British achievement and international co-operation."

### Budgetary expansion

there is still some way to go. The Alliance in the past—and the Liberals, before the SDP was formed—used sometimes to be criticised for having no policies other than being on the side of virtue. The more telling criticism was always that the major parties from the centre. Alliance had too many, as if every conceivable problem could be resolved by setting up

a study group and producing a discussion paper.

This excess has now been acknowledged. Partnership for Progress runs only to 25,000 words and presumably the final document will be shorter. There is still some difficulty, however,

document will be shorter. There is still some difficulty, however, in distinguishing the wood from the trees, in singling out the bright new ideas from the inheritance of the past.

Incomes policy, here dressed up as "incomes strategy," is an example. Whatever Dr David Owen, the SDP leader, may say about having embraced the social market economy, the paper remains full of proposals for government intervention, including a counter-inflation tax on pay deals regarded as excessive and a levy on companies sive and a levy on companies which spend less than an agreed quota of their wage bill on accredited training. The paper also commits the Alliance to

obscure some of its better pro-posals. Quite the best of these is the integration of tax and benefits and the simplification of the tax system on the basis of fiscal neutrality. That should become entirely possible with the development of computeri-sation in the early 1990s. It deserves to be a centrepiece.

Equally appealing are some

of the ideas on constitutional reform, including the introduction of an elected element in the second chamber to represent the regions.

It is sometimes said nowadays that the Alliance is in danger Any party that pulls off that mix deserves to be going places.
Yet the signs are at present that a Labour Party that has become more moderate under the leadership of Mr Neil Kinnock. That is not the evidence of most

# Dialogue on arms control

fronts; how they handle it, over the next few weeks, is likely to determine whether real progress can be made, both in arms control and in some degree of political rapprochement. during

be laid at the door of the Russians: their large military build-up in the 1970s; the shock of their invasion of Afghanistan in 1979 and the crack-down in Poland in 1981; their transparent refusal, during the long Euro-missile negotiations, to contemplate any deal which could possibly have been regarded as equitable by the west; their equally stubborn adherence, in 1985 and the early months of this year, to unacceptable proposals on strategic nuclear weapons in the resumed Geneva negotiations. In terms of the domestic political debate in the US, Soviet awkwardness has perwitted him to the permitted him hands. It has permitted him couraged new optimism over the prospects for an agreement on confidence-building measures in Europe.

Latest response

The underlying suspicions about the Kremlin's strategic objectives remain; but in the light of these recent shifts of position, it has become much more difficult to claim that Mr Gorbachev's support for arms control is just empty propaganda. The inference is that Moscow has now decided to put Washington's seriousness to the test. of their invasion of Afghanistan

hands. It has permitted him to espouse the rhetoric of arms to espouse the rhetoric of arms control, but it has also exonerated him from having to take the hard decisions involved in a real negotiation. When Mr areal negotiation. When Mr areal negotiation. When Mr delivered to Moscow over the hard decisions involved in a real negotiation. When Mr delivered to Moscow over the weekend, is, for a change, openly conciliatory. Its substance is another matter. The president to make a concession is an undertaking not to deploy an SDI system for five years—not the negotiating table in Geneva, and the seriousness of their declaratory posture, the president was relieved of any real pressure to arbitrate between the doves and the hawke in his administration.

Its administration has now been the doves and the hawke in his administration has now been the doves and the hawke in his administration has now been the doves and the hawke in his administration has now been the doves and the hawke in his administration has now been the dove the decisions also exonerated the Mr Gorbachev, which was canvassed with US allies before the weekend, is, for a change, openly conciliatory. Its substance is another matter. The President's main concession is an undertaking not to deploy an SDI system for five years—and the stage expect its position to be taken by the other as final. There must be more moves—before and after any new superpower summit—if this central issue of arms control is to be resolved. The opportunity is still there, for each side to grazen, to his decisions and the weekend, is, for a change, openly conciliatory. Its substance is another matter. The president's main concession is an undertaking not to deploy an SDI system for five years—and the weekend, is, for a change, openly conciliatory. Its substance is another matter. The weekend, is, for a change, openly conciliatory. Its substance is another and the weekend, is, for a change, openly conciliatory. Its substance is another matter. The weekend, is, for a change, openly conciliatory. Its substance is another and the weekend, is,

FOR SIX years, arms control fronts, the Soviet Union has between east and west has been significantly softened its position, to the point where it can of the Reagan Administration, legitumately require a response of the Reagan Administration, the atmosphere was embittered with violent mutual recrimination between Washington and Moscow; 1982 and 1983 were dominated by the long-drawnout struggle over the deployment of the US's Euro-missiles; in 1985 the Soviet Union returned to the negotiating table in Geneva, but no progress was made.

Now it appears that the two superpowers are approaching an opportunity for serious negotiations on a number of fronts; how they handle it, over

control and in some degree of political rapprochement, during the remaining two years of Ronald Reagan's presidency.

A large part of the blame for the prolonged stalemate can be laid at the door of the Russians: their large military build-up in the 1970s; the shock scientists to install seismoscientists to i tions in ways which have en-couraged new optimism over the

test. Certainly, Mr Reagan's letter

meen he distriction.

In his administration.

That opportunity is still there, for each side to grasp, to break eversed.

On a number of the six-year impasse.

N 1983, the Norwegian Telecommunications Authority signed Authority signed a four-year contract with Inter-national Telephone & Tele-graph (ITT) for delivery of what were to be among the world's most advanced telephone switching machines; computerised systems that route calls to their destination. Norway is still waiting for the machines, according to Mr Per Wilhelmsen, technical director for the Oslo region of the Norwegian Telecommunications Administration.

Even if the first major Even if the first major system goes in at Oslo this Christmas—a year late—it will not be the advanced version ordered, says Mr Wilhelmsen. To make up for the delays, Norway turned to L. M. Ericsson of Sweden. That company -which reserved equipment at thet first contact from Norway at Easter-already has some of the machines hooked up and

running. Norway is not alone having troubles with ITI's switch, called the System 12, a digital machine which com-petes with equipment supplied by Ericsson, Siemens, American Telephone and Telegraph, Northern Telecom, NEC and others. These companies share the \$12bn to \$15bn in yearly orders that the world's telephone companies place for such machines. machines.
But for ITT, according to

close observers, persistent tech-nical problems born of a design flaw in the development process jeopardise the System 12's future in this local exchange This could be an unnerving

scenario for the French Government, which is to rule this week ment, which is to rule this week on a merger proposal by ITT and France's Compagnie Generale d'Electricite (CGE), which controls Alcatel, the telecommunications equipment maker for 85 per cent of the French market Under the plan, ITT would shift its \$4.6bm a ITT would shift its \$4.6bn a year telecommunications business into a joint company of which it would own only 30 per

That company, while gaining from FFT's prized presence in international markets, would have ITT's troubled System 12 and two Alcatel systems, one of which is becoming outdated and another that has had operational problems, according to industry executives and

The first switch, although a huge success in France and sold to 51 other countries, was one of the earliest developed and even with enhancements " is on even with ennancements is on-its last legs," says Dr Kevin Morgan, an economist at Sussex University, who is researching a book on European telecom-munications. The French are "desperate for collaboration because their system is the most

do they rationalise these diverse The proposed deal leaves systems, and meet the costs of updating them?" he asks.

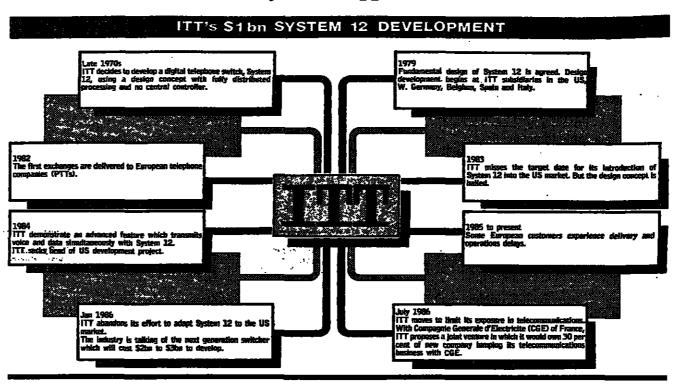
ITT defends its heavily
Supurpan locations.

The proposed deal leaves These process the request. Instead takes the updating them? "he asks. sophisticated urban switches to determine whether a call is creating that System 12 was meant to be.

THE ITT-CGE DEAL

# A hole in the system's heart

By Jane Rippeteau



marketed System 12, which has been delivered to 13 countries. by AT & T and Northern "The problems have been exaggerated," says Dr Renaat Van CGE says that company Malderen, product merketing executive, public networks at

TTT Europe. Capacity is measured by the number of subscriber lines served, and ITT says that it has orders for 12m lines — as many digital local lines as were ship-ped in the US last year, accord-ing to Northern Business

Information.
But only a fraction of that number, about 1m lines, are in operation. The company admits there are delivery delays in Norway, Denmark and Spain. Moreover, in January, FTT decided to abandon a \$155m attempt to adapt System 12 to US standards, killing its once

### CGE has been anxious to get into the US

promising chances in the vital American market. That deci-sion was "not a question of soon was not a question of ability, but of time and money," says Mr Van Malderen. US market growth is expected to peak soon but TIT's com-

petitors still believe it is essential to be in the US because of high volume sales, an expected new buying spree by 1990, and the sophisticated demands of the deregulated Bell operating companies.

CGE has itself been anxious

Dr Morgan is among some individuals who question the joint venture. "How on earth do they rationalise these diverse systems, and meet the costs of updating them?"

CGE says that company engineers have studied System 12 and "the decision was made that we would be able to cope with problems if there are any

Sceptics, however, believe ITT's troubles with System 12 are more persistent. They lay blame on poor management, in-cluding an over ambitious \$1bn development schedule, disagree-ments between top management and engineers, and simul-taneous development at scat-tered locations in the US and

But this exacerbated a technical error early on that was never corrected, according to at least four individuals involved. In 1980, a basic design flaw was evident. But ITT had already committed itself to deliver to several customers by certain

"They had to make a choice whether to go back and redesign," says Mr Peter Thomas, who ran the US System 12 programme until two years ago and is now head of Ericsson's US subsidiary, a direct competitor in the US until ITT pulled out.
"It was like building a home and finding cracks in the cellar and finding cracks in the cellar before finishing the rest. But

lines to central switches.

good," adds Mr Cas Skrzypczak, vice president at Nynex, a Bell regional holding company, who examined System 12. "The problem was inability to transthe desired line is free or engaged and what transmission resources are available to carry the call.

late it into a working switch, at

Mr Kurt Katzeff, chief scien-

tist at Televerket, the Swedish telecommunications administra-

tion, was head of technical development for ITT in Brussels

in the late 1970s, leaving in 1980 over a disagreement on System 12 development. "The importance of central functions

was underestimated by the designers," he says. Processing

modules spend so much time talking to each other that they

are unable to process calls efficiently and "you get an overload."

This limitation may not occur in small exchanges, but it can cripple the performance of a large switch, critics say. Cur-

Critics talk of

in the design

a flaw

least in the US."

The analysis is carried out by computer hardware equipoed with instructions known as software. And it involves a lot of messages. Just like friends calling up each other in town, processors forming the com-puter heart of the system buzz among themselves, passing messages to route the call.

In today's speedily-changing telecommunications world, customers went maximum flexibility in these switching sys-

AT & T Bell Laboratories, among others, conceived the notion of building in such flexi-bility by distributing processing power around a switch in modules so that capacity could be expanded as needed. A medium-sized town, say, could start with a small machine and add modules as telephone use increased—rether than strapping itself from the start with a big expensive machine.

AT & T's "5ESS" switch uses this concept to an extent. The latest AT & T systems can grow from 4,000 to over 100,000 subscriber lines by adding up to 192 modules, the company says. FIT used the same idea, but took it further. In a unique

they never went back to solve the problem."

Today's automated telephone systems go into action when a person picks up the phone to place a call. Rather than speaking to an operator, he or she dials a number and the request is speeded across transmission lines to central switches.

Today's automated telephone expansion capability." ITT used fully distributed processing without any centralised function. Even Mr Thomas of Ericsson concedes that if working the properly the switch would be "something very unique in its ability to grow".

of time." ITT's prior-generation machine, called the Metaconta, is of centralised design, and ITT decided "in the late 1970s to go to decentralised and work on just one system, System 12," he says.

Mr Van Malderen adds that "95 per cent of exchanges delivered are below 25,000 lines." Yet that seems to belie the concept of System 12, that it can be expanded to handle many thousands more lines. The largest System 12 in operation is in Madrid and handles 12,000 lines, according

to ITT. The largest delivered, to Trondhelm, Norway. is 22,400 lines, but only 7,000 are operating so far. "It is running and running well," says Mr Wilhelmsen. "But we don't know what the traffer handling carretist of the system is." capacity of the system is."

By comparison, AT & T Bell Labs says that the largest 5ESS switch in use at the end of last year was 55,300 lines, with one of 84,500 lines going in this

year. There is another design flaw in System 12, according to Mr Ted Franks, who was once Mr Thomas's technical chief at ITT, in that there is no discrimination between simple and complex processing tasks. Monitoring a line to see when a subscriber picks up the phone to place a call must be done continuously, but it is a simple job. By contrast, a complex but less frequent task would be billing for a call, or carrying out a maintenance audit.

Mr Franks says that System 12 allocates the same processing power to both jobs. Hence, resources brought to bear are, either "hopelessly undersized" or "overkill." Other designs or overkill." Other designs get round this problem by "looking for commonality among functions and mapping the system to lump like ones together," he says.
Mr Franks and Mr Thomas

in 1984 proposed a \$150m, three-year plan to resolve these ssues, but it was turned down by management. Mr Franks says. The proposal was two-fold: to make the software more discriminating to reduce messag-ing, and to introduce more powerful microprocessors. Mr Van Malderen of ITT says that the basic microprocessors and software have not been changed.

This limitation may not occur in small exchanges, but it can cripple the performance of a large switch, critics say. Current installations of the switch "are relatively small and simple," says Mr Thomas. "When it gets large or complex, all the messaging just blows it up."

The phenomenon is particularly true for exchanges of over 10,000 lines, says Mr Richard Ryder, a securities analyst who follows the telecommunications business for Phillips & Drew.

ITT's Mr Van Malderen cassily is unclear. "It might be difficult to correct them without starting from scratch," says Mr Goran Hemdal, a software specialist who worked on System 12 in the early years and is now with a UK software company, Advanced Systems Architecture. Mr Thomas believes "it could be fixed," but would take several years and "fairly extensive resources."

That burden, if the ITT-CGE

Exisson concedes that if working properly the switch would be "something very unique in its ability to grow."

Instead critics say, System 12 takes the concept to an extreme, creating too many dispersed modules. "The concept was business for Phillips & Drew. resources."

Instead critics say, System 12 takes the concept to an extreme, central processor "which is creating too many dispersed imited in the number of functions it can handle in X amount France really be getting?

### The Guinness search for Scots

The question on the lips of every paid-up member of the Scottish financal mafia is: "Who is going to accept Ernest Saunders' invitation to join the Guinness board?"
Guinness is searching for up

to three non-executive direc-tors following its controversial announcement this month that it was dropping plans to appoint Sir Thomas Risk, governor of the Bank of Scotland, as non-executive chairman of the group. Risk was to head a supervisory board based in Scotland following the success-ful £2.5bn takeover of Distillers. The problem is that Risk has powerful friends, many of whom were angered by the way he was treated by Saunders. The same applies to Charles Fraser, an applies to Charles Fraser, an Edinburgh lawyer and chairman of Morgan Grenfell (Scotland). Fraser was named as a non-executive director of the supervisory board and was intru-mental in encouraging Risk to come aboard. He too, has with-

Several potential candidates for the Guinness board have been mentioned—but none, so far, appears entirely convincing. Sir Hector Laing, chairman of



"It's Bob Geldorf's morning

# **Men and Matters**

starter, since Fraser sits on his board. Equally, Angus Grossart merchant bank, is hardly a front-runner. He advised James Gulliver's Argyll supermarkets group when it fought Guinness in the battle for Distillers.

This all goes to show how interwoven are the loyalties of the Scottish financial establishment. Saunders will have to exercise all his familiar charm if he is to beat a boycott which, at present, looks about as effective as the one which struck the Commonwealth Games.

### Home and dry The 520 members of the West

German Bundestag (Lower House) are being rehoused after the summer recess—in a 19th century waterworks building just down the road from their usual home, But forget those jokes about political wets. Their temporary quarters are going to be drier than the parliament building which has been periodically flooded by the Rhine. When the Federal Republic was created in 1949, its parlia-

ment was given a temporary home in a former teachers' training college. As often happens, the temporary arrange-ments became permanent. ments became permanent.

Now, 37 years later, apart from the floodings, ceilings have collapsed, and the general condition of the place hardly matches the dignity of its occupants. But the building does enjoy a special affection among the public—probably more so now that it has been decided to spend £80m on reno.

United Biscuits, must be a non- crammed into the old water works to ensure that one Ger-man parliamentary custom, long abandoned at Westevery member of the House has

### **Higher Watts**

Slowly, the City of London's traditional male preserves continue to open to women. Kleinwort Benson at the week-end appointed its first woman director, Lesley Watts,

Watts, aged 32, is still only the third of her sex to occupy such a post in the corporate finance departments of London's merchant banks. Yet, she says: "I have always been encouraged — never felt that I was there on sufferance or aware of any barriers."

In fact, she jokes, "being a woman may help on the way up. There are so few, that once people get over their initial surprise, they do tend to remember your name." She is not so sure whether those advantages last. "Men

tend to look more distinguished as they get older; women tend to try to hide the grey hairs and the wrinkles." But the toughest demand to be faced in merchant banking, she says, is the "buge commitment that cuts into your private life."

life."
Watts, who got a law degree at Cambridge, qualified as a solicitor with Slaughter and May, and passed her New York state bar exams with Shearman and Sterling, before joining Kleinwort in 1981. After a year in the capital markets division the switched to conmore so now that it has been decided to spend £80m on renovation rather than £300m on a new building.

Members are not expected to return to their original quarters until 1989. Meanwhile rows and rows of chairs are being spending the capital markets division, she switched to corporate finance, where she has successful transactions—the successful transactions—the lowester demerger and restructuring, Hillsdown's offer for sale and acquisitions, the Cadbury

Schweppes acquisition of Canada Dry, and Amstrad fund raising.

She was a cricket blue at Cambridge but for relaxation now has turned to fly-fishing. "It's practising the art in beautiful scenery that I enjoy" she says, "rather than actually catching fish."

### Starting point

My report last week on the sale of Universal News Services stirred a few memories for banker, Anthony Cavendish, who founded UNS in 1959 with two other then journalists, George Pipal and O'Dowd

As all three had full-time jobs, they invited Alfred Geiringer to come in and run the news agency, which he subsequently took over and ex-panded, and has now sold to the Press Association.

After UNS, Cavendish, a former Mi6 officer, who is writing a book on post-war intelligence, founded the Caparo group with Swraf Paul and Internal Carella Rothman lawyer, Gerald Rothman-using the first two letters of their surnames to devise a name for the company.

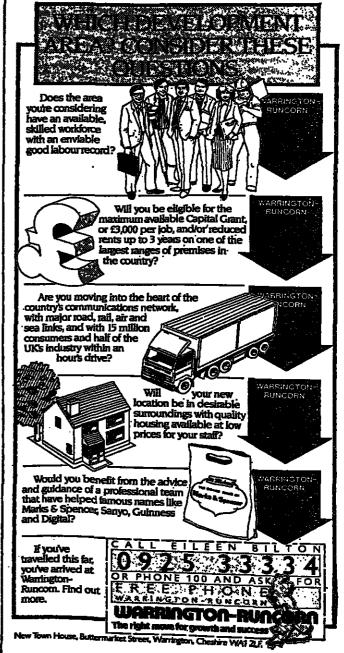
Cavendish quit as a director of the holding company recently with some bitter words to say about Paul.

But his penchant for starting things remains—he has since founded a merchant bank and two finance companies overseas and is currently setting up a new merchant bank in the City for an Italo-Swiss group.

### **Backslider**

A reader wrote to the former employer of a 17-year-old girl who had applied for a job to ask how she had shaped up.
"Dear Sir," came the reply, "When Elaine left my office, she was a month behind with her work. She had been with us a fortnight. Yours."

*Observer* 



WORLD-WEARY professionals down at the House of Commons claim to find nothing new in the Defence Committee's report on The Government's Decision-Making in the Westland Affair, but in my book only one word adequately describes it: sensutional, it is true that its account sheds little fundamentally new light on who did what to whom and when; but seldom, if ever, within living memory can a British administration have been subjected, by a committee which includes a substantial majority of its own parliamentarians to such a withering, such a sustained, such a contemptuous indict-ment on charges of incompe-tence, deceit and disreputable

Few people will ever read all 68 pages of this pitiless prosecution. But future historians will treasure it on two torians will treasure it on two grounds: as a considerable work of inquisition, in which the testimony of government witnesses is wrung out and found, not just wanting, but on many points incredible to the point of mendacity; and even more as a minor masterpiece of understated invective, in which Parliament expresses its rage at the careless misdeeds of over-mighty princes.

No-one reading the report

deeds of over-mighty princes.

No-one reading the report can fail to be struck again by the lamentable role played in the affair by Mr Leon Brittan, the then Secretary for Trade and Industry and the eager cat's-paw of Mrs Thatcher: unreflectingly interventionist in heat of battle, stubbornly evasive when the walls came tumbling down. It must be questioned whether his political reputation can ever recover after this exposure. Sir Robert Armstrong, the Cabinet Secreafter this exposure. Sir Robert Armstrong, the Cabinet Secretary whose tenure has just been extended by Mrs Thatcher, fares little better. Mrs Thatcher herself barely escapes with a stiffly formal exculpation of any positive wrongdoing; a Scottish court would have brought in a verdict of "not proven." Mrs Thatcher last week again defended the integrity of her officials; but if they were not guilty of disreputable behaviour, then she must have been — there does not seem to be a there does not seem to be a

In short, the report conveys the unmistakable whiff of rebellion against a style of government which, in this instance, was so contemptuous of Parliament and public ethics, and so stupidly incompetent in

watching world, so apparent at the time, to concentrate exclu-

Foreign Affairs: Westland

# The flight of fantasy that ended in fiasco

By Ian Davidson

because he mounted it too late, but mainly because he underrated the power of Mrs. Thatcher's political and administrative machine to thwart him, by fair means or foul. Yet the policy issues raised by the Westland quandary remain just as unresolved today as when Mr Heseltine resigned, and they remain purposelved because the mr nesettine resigned, and they remain unresolved because the Government was, on this issue, apparently unable or unwilling to string two coherent thoughts together on the subjects of defence procurement from national contractors, the rela-tive roles of the state and the private sector in defence pro-curement, and the issue of European collaboration.

The Defence Committee makes a manly attempt to grapple with these questions in its companion report on The Defence Implications of the Future of Westland. It provides a useful compendium of background information which will be essential for any conjunc be essential for any serious debate. But because the issues Parliament and public ethics, and so stupidly incompetent in the hame of an impartiality which was flouted at every turn, that it managed to lose two of the most prominent members of the Cabinet.

Yet it would be a pity if the committee's castigations were to reinforce the tendency of the watching world, so apparent at the time, to concentrate exclusions. And the same indepting a pity that these policy is such as the same indepting a pity that these policy is such as the same indepting a point of view, it is perhaps a pity that these policy is such as the same indepting the first place, the report underlines both the extreme weakness of Westland in the

weakness of Westland in the

drama of skulduggery and constitutional impropriety.

Undoubtedly, Mr Michael Heseltine over-rated his ability to bring off a European alternative to the Sikorsky bid, partly because he mounted it too late, but mainly because he underrated the power of Mrs glomerate, Moreover, the American congelomerate, Moreover, the American helicopter manufacturers and the relative weakness of all the European helicopter manufacturers. Not merely is Westland one of the only producer which was not plant of a much larger conglomerate, Moreover, the American helicopter manufacturers and the relative weakness of all the European helicopter manufacturers. can helicopter manufacturers have two large advantages over nave two large advantages over the Europeans: they produce for a much larger national market, and they have concen-trated much more in specialised sectors of that market. Most of Bell's helicopters are small, most of Sikorsky's are of medium size, most of Boeing's are larger.

are larger.
The British Government professed to take the impartial view that the solution to Westland's troubles must be found through the market place. Yet it followed, from Westland's inherent weakness in that market place, that a solution was bound to be determined by other actors; and since a large share of every helicopter manu-facturer's output is bought by national defence ministries, it also followed that these defence ministries were bound to be among the actors.

There may come a day when governments will buy defence equipment on a free market, regardless of national origin; but this policy has not yet been adopted by Britain or any other country with a significant industrial base, and there has been no suggestion that the British Government is about to adopt it. The story of the Nimrod airborne early warning radar, and countless other instances of defence contracts awarded to

national champions, is elequent national champions, is eloquent testimony to a very different policy. The only rational explanation for the Government's fiction about market forces in the Westland affair is partly the Westland affair is partly that Westland was too small to be treated as a viable national champion, and partly that the Government did not (and still does not, according to the report) have a coherent policy on the procurement of helicopters.

the procurement of helicopters. The committee points out that the military helicopter is now in world-wide use in a greater number of roles than ever before, and suggests that helicopters may have an increasing role to play in future, as a result of growing concern over the cost and manoeuvrability of heavy ground forces. It cites the increased emphasis in Soviet doctrine on speed of manoeuvre, as epitomised by manoeuvre, as epitomised by the new Operational Manoeuvre Croups, and the central role of the helicopters in the new French Force d'Action Rapide.

Yet despite all these considerations, it notes that only the US and the Soviet Union appear to have coherent policies for helicopter acquisi-tion; other countries have more tion; other countries have more often tended to treat helicopters as "top-up" buys, when funds permit and other more specialised needs have been het. The British Government made a major and ultimately successful attempt to secure agreement on a new Eurofighter on a collaborative basis; but Westland was to be left to "market forces." Mr Heseltine told the committee that he thought it was essential for Britain to have a helicopter industry; but the Deputy Chief

of the Defence Staff (Systems)

approaching its climax last November, the National Armanovember, the National Armaments Directors of Britain, France, West Germany and Italy recommended, in support of the European consortium bid, an intergovernmental agreement that the four countries would meet their future requirements with helicopters designed and built in Europe. This agreement built in Europe. This agreement was denounced by Mr Leon Brittan as "a monopolistic, anti-competitive and coercive directive" which pointed a pistol at the company and gave it no alternative.

Sir David Perry, the British NAD, told the committee that "in most of our collaborative programmes there are components which are not sourced from within Europe;" that there was at least a possibility that the Anglo-Italian EH101 heliconter might be covered with copter might be powered with a General Electric rather than a Rolls-Royce engine; and that a collaborative programme in which an American firm took a 20 per cent share, might be considered by the NADs to be a "sensible programme."

a "sensible programme."

The paradox is that the The paradox is that the British and other European governments were already moving towards the joint development of three classes of military helicopter well before the Westland affair came to a climax. Westland and Agusta were launched on the development of the EH101 13-tome anti-submarine helicopter and the A129 light attack helicopter, and the four NADs had started feasibility studies of a middle-

The committee concludes that neither of the two Anglo-Italian neither of the two Angio-Italian projects is necessarily threatened by Sikorsky's victory; but Westland's participation in the NH90 may be jeopardised, partly because it would be a direct competitor of Sikorsky's Black Hawk, but partly because the British Defence Ministry is wondering whether it does not after all need a bigger support helicopter—of the size of the EH101. On the other hand, the com-

On the other hand, the committee recognises that, in psychological and political terms, a Sikorsky victory could reasonably have been expected by the Ministry of Defence to have inflicted damage on the general cause of European defence collaboration "over the whole field of defence production and procurement," and it concludes: "Some damage has undoubtedly occurred."

Personally I am not sure how

undoubtedly occurred."

Personally, I am not sure how serious or permanent this damage is likely to be. In the face of the ruinous cost of purely national procurement, Britain is increasingly forced to seek collaboration, and its natural partners are mostly in Europe. The Westland fiasco was just the combined result of a government flight into a free-market fantasy over defence procurement and the absence of a coherent policy over helicopter procurement. Almost certainly less damage has been inflicted on the general cause of European collaboration than on the personal reputations of on the personal reputations of a number of British politicians

### Lombard

# Volcker's logic open to query

By Samuel Brittan

THE MORE disturbing con-trast lies in the source of that growth. In the United States, the rate of growth in domestic demand, while slow-ing in the third year of expan-sion, continued to average about 31 per cent through that period. Domestic demand growth in the industrialised countries of Europe and Japan countries of Europe and Japan uras significantly less—about 21 per cent. Paul Volcker, Senate testimony, July 23 PAUL VOLCKER has more right to talk about the dangers of inadequate demand growth in Europe and Japan than the many commentators who have been calling for reflation in season and out of season, even when the real dangers facing the world have been precisely

the opposite. But even Mr Volcker is in danger of committing a logical fallacy in stating his case.

1. US demand was rising faster than gross nat/pil product:

The implicit argument seemed to be:

There is another danger which one can select from the infinite possibilities. This is that after the correction of the Oceanian deficit. GDP growth will be dragged down to say \$550n in Eurasia, instead of domestic damand growth being domestic demand growth being

pulled up to \$10bn. Extreme Keynesians would regard this as the normal out-

the decline in its balance of

payments, so that the bottom line of the table comes to 0, demand will grow at the same

rate as output both in Oceania and Eurasia without any fur-

What then are the real dangers? One is that the Eurasians will try to stop the correction of the payments imbalance, because their own

economic structures are 100 geared towards exports. If they succeed, the Oceanian balance

may never be corrected; but even if they fail, the attempt of the two areas to follow mutually incompatible payments objec-

tives can drag down growth in Eurasia, Oceania or both.

ther policy change.

### " WORLD " DEMAND AND OUTPUT

Changes in billion dollars Total Oceania +20 +20 Domestic demand GDP + 5 Changes in external balance

2. European and Japanese de- come-without asking how the

Japanese governments had to boost home demand. Not far away are the siren songs of those "Keynesian" songs of those "Keynesian" economists who can never see "where the demand will come from," and those who talk as if a reduction in one country's fiscal deficit must be balanced by an increase in another's, The Fed chairman is being trapped by an accounting identity, as I have tried to show in the simplified table which divides the world into Oceania and Eurasia, If Oceania

mand was growing more slowly world managed to grow, before than their GNP:

we heard of demand manage-3. Position (1) cannot continue, because of the need to tackle the US payments deficit. Stabilising forces would be Therefore European and Japanese governments had to domestic demand growth to \$10bp without specific policy action. But this is to assume that the self-stabilising forces always work perfectly.

The sensible posture is to The sensible posture is to have contingency plans to maintain demand and GDP growth of \$20bn in the world economy and of about \$10bn in each country. This may require fiscal as well as monetary easing in Eurasia for a time. We do not know a priori.

show in the simplified table which divides the world into Oceania and Eurasia, If Oceania an increasing deficit with Eurasia, by definition, domestic real—terms. This would prodemand is growing faster than gross domestic product in Oceania and more slowly in Eurasia. If by some combination of fiscal restraint and exchange depreciation Oceania can arrest We do not know a priori. But the most important provise of all is that GDP objectives should be in nominal—not real—terms. This would provide the West Germans with a safety net against inflation and defiation. The essential message could be conveyed without the Fed's misleading national income arithmetic.

### Germany not disappointing

From the Director of Europe<mark>a</mark>n

Sir.-Bad news is more newsworthy than good news. An additional piquancy is added when good news had been expected to start off with. Nonetheless I would have expected the FT, the best newspaper in the world, to be beyond the temptation of publishing a leader (July 21) on the German economy's dis-appointing performance which makes pleasing reading, par-ticularly to US policy makers, but is of dubious analytical

Remember the oil price explosion of December 1973? It was only in the fourth quarter of 1974 that Organisation for Economic Co-operation and Development countries industrial production collapsed. Remember the oil price increases of the second half of 1979? OECD industrial production still moved to a new peak in Q1 1980 before collapsing thereafter. Econometric research unambiguously shows that an unexpected gain in income is first saved. When prices of raw materials are falling the wise purchasing manager delays restocking. We now have before us the first thistics on Carman reconomic statistics on German economic performance for the month of May 1986. Is it reasonable to expect the growth stimulating effects of the first quarter's oil price collapse to be already visible? We have constantly to be aware of wishful thinking. But let's allow for the inevitable lags in the economic system to work themselves out before

drawing conclusions. In fact had you gone to the trouble of flipping through the July issue of the Bundesbank's Economic Indicators you would have found the evidence rather heavily weighted in favour of a rapid build-up of domestic demand. The most recent statistic available for the German economy, and a "leading" one at that, is for German car sales and it shows a very strong market indeed. In the strong market indeed in the strong market indeed. In the strong market indeed in the strong

domestic demand growth and GDP growth, so often lost sight of in the current debate. As long as domestic demand is long as domestic demand is growing in Germany, the more this demand is satisfied by imports the better for balanced expansion of the world economy. This of course means that German GDP should grow by correspondingly less. By the way German imports in volume so far this year have been expansion of the world economy. This of course means that German GDP should grow by correspondingly less. By the way German imports in volume so far this year have been rising at an annual rate of 14 per cent. How much more of a population between the ages is ms involved ensure that profit is made from keeping people is made from treating their illnesses. Further more, many HMOs are clinic based and do not manage hosting it made from the made from treating their illnesses. Further more, many HMOs are clinic based and do not manage hosting in the made from treating the made from

### Letters to the Editor

Krafft Holtz, c/o Vauxhall Motors, PO Box 3, Luton, Beds.

Transport efficiency

From Mr B. Fish Sir,—It is unfortunate, to say the least, that in his advertisement (July 22) describing the latest results of London Regional Transport, Dr Bright uses two completely meaningless graphs.

Ignoring the fact that there is in any case no such thing as an absolute cost per mile, both the apparent cost per mile and the miles per employee will move favourably merely by moving buses and trains around empty. Not only therefore are the graphs potentially misleading; they also fail to tell us anything of the efficiency or cost effectiveness with which LRT resources, human or otherwise, are being deployed.

Brian H. Fish. 14 Stoke Hill, Stoke Bishop, Bristol

Equality of

the sexes From Mr J. Lockwood Sir,—Over the last two or three weeks the newspapers have given their usual negative

nave given their usual negative reports on the pros and cons of legislated male retirement at the age of 60 years.

Living in a national community that dictates complete equality of sexes in all spheres
— even in the extent of job advertisements not being able to emphasise one or other sex would be given preference owir to actual physical suitability it is scandalous that a differen-tial should be maintained on

retirement age levels.
We are told that the cost of adjustments would be prohibitive but surely we must start

somewhere. I propose immediate action to bring the male retirement age to 80 and a date set for February, 1987. I chose this date to fit in with our tax year and secondly to give ample time if this Government does not legislate as such, for the male population between the ages fall? It is a statistical fact that a male retiring at 60 years of age can look forward to 15 years "healthy" retirement but

should he go on until 65 years of age the last five years takes such a toll on his health that he can look forward to only 15 months "healthy" retirement. Anyone of course, would be allowed to work after coming of age if he or she wished to do so but would get no extra pension in doing so, either

state or private. In my view the state would gain by the man of 60 being re-placed by one at 45, he by another at 30 and he by a man in his early 20s who is unemployed and claiming benefit for him-self, his wife and two/three children. Thus a total of four or five people would be brought off benefit and replaced by two short-term beneficiaries — the

60-year-old retiring man and his The point I cannot under-stand is that the average British male does not actively protest against this gross travesty. Our female counterparts would be chaining themselves to railings as indeed they did to get the vote and would achieve justice within 12 months.

within 12 months. We must not talk of reduc-ing gradually to the age of 63 or indeed putting up the female age to meet that of the male half way but do it all and do

it now! John R. Lockwood, 23 Dunsmore Drive, Salendine Nook,

Keeping healthy

From Susan Hynes

Sir,—The report "Health Service urged to copy 'cheaper' US system" (July 21) refers to a relatively new form of health care delivery system in the US as "hospital management organisations"—HMOs, HMO does not stand for "hospital management organisations" management organisation."
although this title may well
appeal to those who appreciate
crisp dehumanised efficiency.
HMO stands for health maintenance organisation, so named because the financial mechan-isms involved ensure that profit

Health maintenance organisa tion at least sounds a bit more patient-oriented than "hospital management organisation." Susan Hynes, 30 Mauldeth Close, Heaton Mersey,

Workshops in Liverpool

Sir,—In his article on the re-development of Liverpool's docklands (July 17) Ian Hamil-ton Fazey made mention of the New Enterprise Workshops, one of BAT Industries' small busi-ness initiatives ness initiatives.

The occupancy rate of the

workshops averages in fact 70 per cent, not 60 per cent as stated in the article. More importantly, however, we feel obliged to correct his statement obliged to correct his statement that the New Enterprise Workshops are rented out "for profit." The current position is that the workshops are operating at a loss, with BAT Industries providing the balance of the funding required on an annual basis. We would certainly like to see the workshops reaching break-even point at some time, but as their status is that of a company point at some time, but as their status is that of a company limited by its guarantee (New Enterprise Workshops (Toxteth) Ltd), any surplus generated would automatically remain under the control of the workshops themselves. Under

workshops themselves. Under no circumstances would BAT industries stand to receive financial gain from the project, nor was this ever the intention. R. Davies, Batco Small Businesses, 7 Millbank SWI,

Too noisy travels

From the Vice-Chairman, Bromley Residents'

Sir, — May I add to Mr Street's list (July 24) of pol-luters the operators of helicopters. Whenever Grand Prix motor racing takes place at Brands Hatch, thousands of people living in Kent and South London are subjected to serious disturbances from these noisy and anti-social air-craft, often flying at very low

During the weekend of July 12-13 there were no less than 600 movements from Biggin Hill, many of which flew low over the villages of Downe and

Cudham. The law should be changed to restrict the number of helicopter movements at such special events, to impose mandatory minimum-noise routings avoiding built-up areas, and to require planning permission for all temporary heli-pads, even

# **STERLING COMMERCIAL PAPER**

**Market Update** 

18

Publicised programmes to date

Sterling CP Options incorporated in other facilities

Leading Dealer/Arranger with 6 publicised programmes including The BOC Group, Norsk Hydro, P&O, Redland and Unigate.

COUNTY NATWEST CAPITAL MARKETS

& The NatWest Investment Bank Group



# FINANCIAL TIMES

Tiphook plc 🔡

Better service to Transportation

Paul Hannon on Wall Street

### Chips are down for computers

SIGNS OF A recovery in the industry, repeatedly forecast over recent months, have still eluded the main stocks and market watchers are being urged to buy new cathode ray tubes for their crystal balls.

Endless accusing fingers point at IBM as the culprit. Big Blue, widely considered a market beliwether but increasingly used as a single-stock shorthand for the entire equity market, disappointed investors with its recent 7.7 per cent drop in second-quarter figures.

Although the results were a genuine surprise, they were only a re-flection of the level of recent corporate profitability and subsequent

capital spending.

Corporate profitability for 1985 fell an estimated 11 per cent and recent data suggest that while the growth in company earnings is not improving, the pace of deterioration seems to have slowed.

The computer industry represents an estimated 17 per cent of all US capital spending and thus is ex-

|           | profits<br>change<br>2nd qtr (%) | Friday<br>Price<br>(S) |      |  |
|-----------|----------------------------------|------------------------|------|--|
| Amdah)    | 48                               | 34                     | 17%  |  |
| Apple*    | + 345                            | 15                     | 34   |  |
| Burroughs | + 41                             | 13                     | 67%  |  |
| Koneywell | - 31                             | 12                     | 67%  |  |
| 8M        | <b>- 7.7</b>                     | 13                     | 134% |  |
| NCR       | + 18                             | 15                     | 51%  |  |
| Prime     | - 13                             | 17                     | 19%  |  |
| Sperry    | - 44                             | _                      | 75%  |  |
| (andem*   | + 880                            | 27                     | 33%  |  |
| Weng      | _                                | 40                     | 14%  |  |

posed to the vicissitudes of actual corporate performance and the perception of future profitability.

Last week's Commerce Department data on industrial demand suggested that the small rise in orders, the first after four months of declines, might be a watershed although Mr Malcolm Baldrige, Commerce Secretary, said: " It is too soon to call this a new trend toward better growth." For what its worth. he also forecast further improvement in coming months due to lower interest rates, cheaper oil and the lower dollar (making imports that much more expensive).

The Administration's ability, however, to report on historic growth, let alone future expansion, suffered a blow early in the week when it upgraded its first-quarter rise in gross national product from 2.9 per cent to 3.8 per cent. The bond market was the first to take fright at such a wide discrepancy and on the fear that any current data is also liable to substantial fine

The summer is traditionally a low point for the computer industry and any increase in demand is not likely to manifest itself until Septem-

"Technology stocks peaked in mid-1983" says Mr Stephen Dube of Shearson Lehman Brothers "and since then have underperformed the market." In June, for example, the S&P 400 rose 0.4 per cent but a representative selection of high technology stocks fell 8.9 per cent.

From IBM at the top to the humblest personal computer maker, the entire industry has been ravaged by cut-throat competition, subsequent widescale new product innovation, falling prices, rising inventories of "outdated" models and an increasing foreign presence.

Against such a backdrop of creative friction, last week's tally of winners and losers included Wang's \$800,000 rebound into the black after a \$190m loss in the comparable period. Like virtually all other groups reporting results, revenues were up - by 12.8 per cent. The com-pany identified investment in "new strategic communications and service ventures" as the reason for low margins. The Massachusetts microcomputer maker showed a weekon-week stock market gain of \$1%

to \$14%. Prime Computer turned in a 13 per cent drop in the latest quarterly earnings to \$11.4m but Mr Joe Henson, president and chief executive officer, cited a surge in new orders that was not included in the results. What interested Wall Street as much, however, was the concurrent

nowever, was the comment to buy back up to a nt of the group's outstanding on stock in the open market, eximately 2.4m shares. Prime ned the week with a net rise of at \$19%.

Times are considered bad for computer makers, they are even are for chip manufacturers. Morale is the only large chip maker at is showing growth (95 per cent acrease in earnings per share for he second quarter). Although the much smaller Monolithic Memories scored a jump in earnings per share from 2 cents to 17 cents.

But the rest of the industry can be considered a backwater with many stocks trading at or near their lows for the year. An upturn is unlikely before the fourth-quarter.

Call comfort and hard days ahead.

Monday July 28 1986

Ivo Dawnay examines President Sarney's ambitious development plan

# Outlook unsettled for Brazilians

panied by a pimultious downpour the first rain the federal capital had seen since April. It is difficult to know what to make of the symbo-

Certainly, the President's wideranging development programme represents some kind of watershed for Brazil, its notoriously uneven distribution of wealth, its embryonc democracy - and more immediately, its current economic strategy.

But, whether the programme's shower of ambitious growth targets and objectives falls on stony or fertile ground will depend to a large extent on the second, less palatable part of Mr Sarney's message - the urgent need for a painful squeeze the goals included are: on the two greatest badges of Bra- A sustained growth rate of 6 per and foreign holidays.

return for swingeing price rises of The creation of 6.6m jobs. up to 30 per cent on cars, fuel, air. A formidable increase in energy promise to raise national living per cent.

standards to match those of Medi. A 20 per cent expansion in the terranean Europe cut much ice with national railway network. Beverly Hills.

But the marriage of the Government's upbeat three-and-a half year development plan with a series of credit-squeezing and investment- concluded, with admirable econopromoting measures was not simmy, in his presentation last Wedply a cynical act of political camoufnesday night, "is a rich Brazil." ply a cynical act of political camouf-lage. Some sort of fiscal package was clearly an essential prerequisite for the achievement of Brazil's longer term goals as leaks in February cruzado plan began to feed through to the economy from an in-satiable rise in consumer demand.

The question preoccupying the economists' calculators. Brazilian industry, and most of all, the political opposition is whether the programme can be made to stick.

In choosing the course he did, the

PRESIDENT Jose Sarney's emo-tional rallying call to the Brazilian nation last Wednesday was accom-greeted the original anti-inflation-and credit agencies to reduce pergreeted the original anti-inflation-ary cruzado plan. With elections in November, the political stakes have risen markedly.

In essence, the aim of the plan's djustment is twofold: first, to reduce the boom in consumption, currently up on last year by 25 per cent and more in some regions, and, sec-ondly, to restore investment and reverse the massive drain on savings that has fuelled the spending spiral.

If justification is necessary, it comes in the 51-page plan targets which spell out a programme for national growth that would be laughably optimistic in almost any country but Brazil. Among some of the goals included are:

zilian middle-class prestige, the car cent a year, raising exports of manufactured goods by an average of 20 The promise of jam tomorrow in per cent annually until 1989. The creation of 6.6m jobs.

line tickets and hard currency has production, lifting electricity output not gone down well in the affluent by 32.5 per cent to 57,500 MW and suburbs of São Paulo and Rio de Janeiro. Nor does the President's per cent of national demand to 90

those lucky few living on a par with • A series of wide-ranging social programmes ranging from free milk, schooling and health schemes to mass retraining projects.

"The objective," President Sarney

The so-called fathers of the cruzado plan, including 34-year-old US-trained Professor Persio Arida, now confess that although some account ary's price-freezing, anti-inflation-ary cruzado plan began to feed tionary illusion of high interest rates had been made under the cru-"We expected a spending boom as

credit for personal consumption had increased by 50 per cent in real terms," he says. "But the real surprise was the decline in savings." A preliminary stab at cutting President has used up a consider- credit was made last month, when

sonal lending about 30 per cent by September. But, before the ink was dry on the measures, it was clear that further steps would be neces-

Last week's package was, how-ever, more than just a credit squeeze programme. It added the altogether more longsighted ele-ment of creating a national development fund, a holding agency for new resources due to be generated. in part, through a uniquely Brazil-ian cash-raising system of "compul-

The loans - a 30 per cent sur-charge on new cars and 28 per cent on fuel - are paid on the retail price at point of sale, and, while accumu lating interest, are only repayable in the form of shares in the fund at the end of three years. Even then the government will not redeem the shares, but will simply allow holders to negotiate them privately through the stock exchange.

This investment fund, is due to be enhanced by the mandatory inclu-sion of a full 30 per cent of all pri-vate pension fund capital. It should raise a total sum equivalent to some 2 per cent of gross domestic product innually. This is expected to total up to \$20bn of new money for instment until the end of 1989.

Coincidentally, this sum is roughly equivalent to Brazil's projected outflow of interest due on foreign debt. As one embittered motorist put it "The Government has decided to get the middle class to pay the foreign banks on its behalf."

A significant proportion of the fund's resources, under the ulti-mate control of the Finance Ministry, is expected to be used to capialise the hopelessly indebted public sector - 67 per cent of whose working capital is borrowings - in panies to profitability, thereby re leasing substantial sums for investment in crucial projects.

Besides the development fund the package also establishes new taxes and a series of measures to stimulate investment. These in clude the creation of a new floating rate savings instrument, an in-crease in capital gains taxes on short-term funds and a reduction on those for longer-term investment. There are also taxes on foreign travel, dollar purchases and the commodities markets.

Most Brazilian economists ap pear to like the shape of the plan. Professor Celso Martone, the highly regarded University of São Paulo economist, expects the plan to boost business confidence in capital investment, but is critical of the earlier "loose" monetary policy of the

"At present, consumption is cheap. Real interest rates, if you take away anticipated inflation and tax, are about 4 per cent to 6 per cent," he says. "A tighter policy will have to be implemented in the next

Professor Arida and his col-leagues cheerfully allow criticism to pass over them. They point out that even a cursory reading the of Brazilian economy's runes present a conjuncture of indicators that would be the envy of many developed economies: a projected trade sur-plus in visibles of possibly \$13bn this year, still in the black after the repayment of foreign debt interest, growth between 6 and 8 per cent, and good corporate profit figures.

"There's no case in history - not even the Weimar Republic - where a country paid 4 per cent of its GDP in debt repayments" points out Pro-fessor Arida, whose current bedside reading is, perhaps significantly, Keynes's How to Pay for the War

For the politicians in President Sarney's Democratic Alliance coalition, there are other calculations however. With state and congres debt equity swaps. This should ressional elections in November the tore several major state sector compolitical health of the senior partner, the Brazilian Democratic Movement Party (PMDB), could be a great deal better.

THE LEX COLUMN

# Gearing up at the Bank

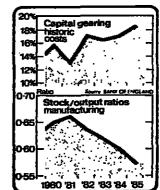
The reinforcement of comp balance sheets over the past few years is perhaps one of the most notable, if indirect, achievements of Thatcherism. Having gone into the recession overgeared, and rather careless of cash, industrial companies learned (in some cases re-learned) the virtues of working capital control Chairmen had been used, in the 1970s to wonder if they were carrying enough debt to give the shareholders an adequately geared return on their investment; in the early 1980s their hardpressed finance directors laboured to pay down an often crippling bur-

The easiest discipline to learn was slower payment of suppliers, followed by a squeeze on stocks. Stock pipelines that emptied in 1981 have never been refilled as they would have been in previous recovery periods. Although there were limits to the amount of debt that could be eliminated by better financial controls, gearing ratios could also be improved by adding, if only in appearance, to the equity side of the balance sheet. Many a dark satanic mill found itself being revalued as a means to stave off breach of completely different ways. And it is loan covenants (sometimes, indeed,

as a prelude to eventual closure).
With the recovery of profits,
moreover, it was possible to enter a heady spiral in which rising earnings and stock market ratings made it possible to supplement retained earnings with rights issues. Little wonder that the City's main

aggregate models of the company sector balance sheet agree that net gearing has fallen by between 25 and 50 per cent since the late 1970s; capital gearing, according to the published accounts of listed companies, seems to be historically low, at around 20 per cent. Whole strands of industry that were highly geared in 1980 - such as the textile sector are now boasting net cash. Cash mountains, piles and war-chests have become commonplace.

It is rather strange, therefore, to find that official statistics tell a different tale, in which net gearing has steadily moved - not down, but up. Some of the same things are supposed to have happened, like the shedding of stocks, but according to the Bank of England's latest quarterly bulletin, capital gearing has risen by nearly a third in the last five years. What has gone



Conceivably, the differences are no more than statistical. The stockbrokers' tabulations work from accounting data and concentrate only on the larger companies. The Bank, following the Central Statistical Office, has built up its picture of capi tal employed in industry by accumulating all reported capital invest-ment over time, net of scrapping and depreciation. So the conflicting views have been put together in

Yet in theory, the two procedures should give consistent results, mak-ing the odd allowance here and there; two ways of measuring the same thing should not diverge for years on end unless at least one set of numbers is at fault. That, however, is more than likely.

It is something of an embarrassby an "unidentified" balancing item that is as large as the sum of identified transactions. On the other hand, creeping financial creativity has without doubt been one factor in the strengthening of published

still a possibility that the difference ers from themselv

on net gearing can be traced to different conventions on the netting of cash and investments against debt; the Bank has noticed the acquisition by companies of more financial assets, but has preferred, in its role as guardian of the monetary aggregates to deny that any more than a small fraction is bought for arbitrage purposes. Perhaps the Bank maintains a correspondingly generous estimate of net debt.

If there is no problem about the level of net debt, however, that raises an interestingly sinister question: what has happened to the equity that companies claim to have but which the authorities cannot find? It would be an ironic if not unexpected twist in the story of freemarket government, if industry had been quietly voting with its balance sheet footings, shifting its equity base off-shore, and gearing up at

### Underwriting rules

If the jury is still out on the issue of gearing, the Bank of England de-serves a couple of cheers at least for its consultative paper on banks quite possible for the official version of net assets to have been held down by falling estimates of the uity issues should not be treated capital stock, at the same time as the same as making loans to Mexicompany accounts were showing an co. and banks will be able to exceed increase in equity through revalua-tions, retentions, and rights.

the maximum they would normally be able to extend to one borrower above 25 per cent of their capital

As it is not unusual for an underwriting commitment to be larger than a merchant bank's entire capi tal this decision is rather important if the British banks are to compete with the big foreign houses.

The thinking is that the credit

risk on primary issues is small comment that official calculation of the company sector's financial surplus has been completed in recent years when the over 25 per cent concessions of the concession of the con when the over 25 per cent concession runs out, it should not be much larger. Indeed the 90 days grace seems to be generous. Any under-writer left with stock after that pe-riod is probably sitting on a sizeable loss. What seems genuinely to have been left to discussion is the distance above 25 per cent they will be But suppose that both sides are, able to go, and the rules which will by their own lights, giving a reliable apply. No doubt the banks will be picture of events, and that there is pressing for as much as they can reasonable agreement about the get. But then the supervisors must gross level of borrowings. There is save some of these impetuous bank-

# Smurfit to buy US group for \$1.16bn

BY WILLIAM HALL IN NEW YORK

Irish packaging group, is taking over Container Corporation of America (CCA), one of the biggest US packaging companies, in a \$1.16bn deal which will more than double its presence in the world's biggest packaging market.

JSC/MS Holdings, a newly-

Stanley Leveraged Equity Fund, which is controlled by one of New York's oldest investment banks, has signed a definite agreement with fy into non-oil related businesses. Mobil, the second biggest US oil company. They have agreed to acquire CCA, which last year had sales of \$1.7bn and employed 18,400

JSC/MS Holdings will pay Mobil \$700m in cash and assume approximately \$457m in CCA debt and other liabilities. The acquisition will be financed

mainly through \$600m in bank borrowings and the sale of approximately \$400m in subordinated debt. the imagination." Jefferson Smurfit and Morgan Stanley say they have firm commitments from a bank syndicate led by

UK engineers make job offer

determine "a pattern of shift work- agreement. The union draft accepts

The employers' federation has round of talks held last week as said that individual companies constructive. They have agreed to

at company level implement the of obstacles in the path of a final

World Weather

tion and ongoing operations.

Continued from Page 1

the establishment

ing to suit the particular needs of this.

among its 5,000 members will not

have to abide by a national agree-ment cutting hours unless workers

JEFFERSON SMURFIT Corpora- Jefferson Smurfit entered the US tion, the fast-growing US arm of the market in 1974 and has grown rapidly through acquisition. It now operates more than 90 mills and facilities in the US. In the first six months of 1986 it earned \$10.6m on

sales of \$501.2m. However, the latest move overformed company owned equally by Jefferson Smurfit and the Morgan Stanley Leveraged Family 18 parent, into one of the kinner acquisitions and transforms the company, which is parent controlled by its Irish parent, into one of the kinner acquisitions and transforms the company, which is parent, into one of the kinner acquisitions and transforms the company, which is shadows its earlier acquisitions and aging groups in the US. Mobil acquired CCA in the mid-

1970s when it was trying to diversi-Brendan Keenan adds from Dublin: Smurfit is expected to follow its usual pattern of severe cost cut-ting, including widespread redundancies, among CCA's 18,460 em-

Mobil has invested \$800m in CCA in recent years. Mr Howard Kilroy, Smurfit's chief operations director, said: "The majority of the assets are less than five years old. They are underperforming by any stretch of

The purchase may also give Smurfit its long desired move into Europe. CCA has plants in Spain. Bankers Trust to provide up to Holland and Italy and Smurfit has \$700m in financing for the acquisian 18 month option to purchase

Both sides described the latest

speed up the meetings in an at-tempt to reach final agreement. However, there are still a number

# Foreign bank assets decline in Japan

BY IAN RODGER IN TOKYO

bond trading business. But their return on assets remains very low an average 0.19 per cent in the year to March 31, 1986 - and the total assets of foreign banks in Japan actu-ally declined, reflecting the difficulties foreigners have in crecking Japanese lending markets.

The latest compilation of foreign bank results in Japan by accoun-tants Peat Marwick Mitchell is likely to spark fresh complaints about unfair trade in banking. At a time when Japanese banks

and securities dealers are taking major shares of the US and European lending markets, non-Japanese banks have managed to win only about 2 per cent of the Y265,000bn (S1,700bn) Japanese market available to private sector cent to Y395m in 1985-86. The big-

The figures confirm statements kets because of the difficulty of year.

PROFITS of foreign banks in Japan finding good Japanese clients at rose sharply last year on the reasonable terms. Bank of America, strength of foreign exchange and for example, has cut its assets by 14 per cent between April, 1985 and March 1986, Citibank by 6 per cent.

The leading (state owned) French banks continued to expand, showing a Japanese style disregard for poor results in the short term. All seven French banks, except UBAF, had below average rates of return last year in Japan and two, Société Générale and Crédit Commercial de France, ended in loss.

Three of the big four British banks made operating losses last year in Japan. Barclays made a return of 0.18 per cent on average assets of Y171.9bn.

Average profits before tax and extraordinary items of the 77 foreign banks in Japan rose 106 per gest gains were made by those banks, mainly American, that have from many foreign banks that they taken advantage of the liberalisa-are retreating from lending mar-

### FOREIGN BANKS IN JAPAN

TOP 10 BY PROFIT **Yen bn** 3,69 2,98

(3) Bankers Trust Co 3. (22) First int. of Gelif. 4. (17) Toronto-Dominion 5. (24) Bank of America 6. (1) Chemical Bank 1
7. (6) Morgan Guaranty Trust **TOP 10 BY TOTAL ASSETS** 

1.70 8. (2) MFRS Hanover Trust 9. (74) First Chicago 10. (7) Koraa First Bank 1.28

936 800 565 582 555 446 431

Before tax and extraordinary items

Source: Published financial statements of for eign bank branches in Japan at March 31 1986, Peat, Manwick, Mitchell & Co Tokyo.

# **Howe warns Pretoria**

Continued from Page 1

though not until after the mini-sum-

The Foreign Secretary also hopes to persuade the frontline states, such as Zambia and Zimbabwe, to exercise their influence with the ANC to end violence and begin a di-alogue with Pretoria once President Botha agrees to release Mr Mandela, despite the negative attitude which these countries have so far adopted towards his mission.

The weak link in Sir Geoffrey's plan is that all the principal black secretary of state who is to meet Sir South African opposition leaders except Chief Gatsha Buthelezi, who systematy that the President was heads the Zulu-dominated Inkatha movement and whom he will meet

ment. Mr Tambo has agreed in principle to meet Sir Geoffrey, aleconomies are entirely dependent economies are entirely dependent on their powerful South African neighbour, that Sir Geoffrey found

any real sympathy and support for

Nancy Dunne in Washington writes: The Reagan Administration this weekend continued to back away from its strong opposition to economic sanctions against South Africa as momentum for strong action grew in Congress.

Mr Chester Crocker, the assistant considering renewing the compara-tively mild economic sanctions intoday, have refused to see him.

It was only in Botswana, Swazi
uled to expire in September.



AUSTRALIA • BAHAMAS • BAHRAIN • BANGLADESH • BRAZIL • CANADA • CAYMAN SUSTRALIA DATAMAS DATAMAS DATAMAS DATAMAS DATAMAS CAYMAN
SILANDS • PEOPLE'S REPUBLIC OF CHINA • FIJI • FRANCE • CERMANY • GHANA •
GREECE • GUERNSEY • HONG KONG • INDIA • INDONESIA • IRAN • JAPAN • JERSEY •
JORDAN • KENYA • REPUBLIC OF KOREA • MALAYSIA • MONACO • NEW ZEALAND
• NIGERIA • OMAN • I'AKISTAN • PAPUA NEW GUINEA • QATAR • SINGAPORE •
SOLOMON ISLANDS • SPAIN • SRI LANKA • SWITZERLAND • TAIWAN • THAILAND •
UGANDA • UNITED ARAB EMIRATES • UNITED KINGDOM • UNITED STATES OF AMERICA
• VANUATU • ZAIRE • ZAMBIA • ZIMBABWE

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The Australia and New Zealand 150 years experience in financing trade, aking Group, which now includes and a widely recognised reputation in indiays. Bank has over 1,660 the London financial and foreign exchange

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# Water

The water industry has reached a turning point brought about by the Government's attempts to privatise the ten regional water authorities. Although the proposed flotation has been shelved, they have been obliged to rethink all their attitudes

# A target for change

THE WATER industry will never be quite the same again. It was used to being taken for granted, providing the most essential of all services quietly and efficiently. Only when a double decker bus fell down a collapsed sewer, or standpipes came out on the street corner during a drought, did water supply reach the headlines.

Yet, in the last 18 months the subject has made a considerable impact on the national stage, starting with a furious row over the Treasury's insistence that water charges should be increased by well above the rate of inflation in order that fierce financial objectives could be met. The authorities would have preferred to keep charges

Then, virtually out of the blue, came the proposal to privatise the industry. It seemed an unlikely candidate given its position as monopoly supplier of an absolute necessity. But there were obvious attractions for the Covernment. for the Government.

The 10 water authorities, with assets of £27bn, could raise be-tween £5bn and £7bn as part of a privatisation programme that was running into difficulties to tempting a target to ignore.

A White Paper was published last January and the authoriget the legislation into shape. last January and the authorities' leaders, initially hostile, sceptical or agnostic, with the enthusiastic Mr Roy Watts, chairman of Thames Water, accepted the prospect as a political fact.

The intention was to introduce a Bill at the beginning of the consultation by the continuing of the consultation but the consultation into shape.

Since then there has been a consolidated. It is spread over dozens of acts and statutes and the proposed Bill would have needed more than 200 clauses.

Since then there has been a curious mix of disappointment over dozens of acts and the proposed Bill would have needed more than 200 clauses.

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Since then there has been a curious mix of disappointment over dozens of acts and the proposed Bill would have needed more than 200 clauses.

Since

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deliver 800m gallons er every day to a quarter
UK population—about

the next parliamentary session in November, transforming all 10 authorities into public limited companies, initially with a 100 per cent Government shareholding. The Bill was due to become law by next July and the authorities, or water services plcs, would be sold off individually or in groups from the end of 1987.

tion of the authorities.

What went wrong? The answer lies in several areas, political, financial and practical. First, there was lack of time. With hindsight, Mr John Gunn, the end of 1987. the end of 1987.

But in another shock for the But in another shock for the at the Environment Department industry. Mr Nicholas Ridley, ment, was given an impossible Environment Secretary, sudtently announced last month complex and contentious of that all bets were off. There was simply not enough time to of weeks.

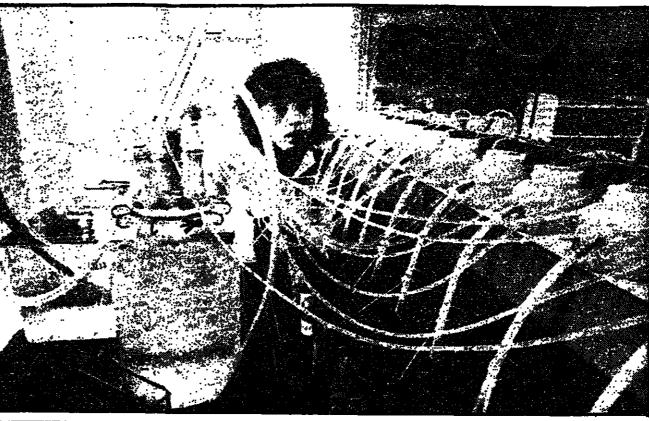
The prospect of flotation and the prospect of notation and the need to prepare for it to attract investors dominated the thoughts and actions of the authorities for months and there is now, inevitably, a feel-ing of deflation.

"It is not going to be easy to re-engage," one industry leader admits. "Everyone has been going flat out and we are looking at exciting new horizons. We now have to accept we will remain in the public sector for the foreseeable future."

Tours live affected by the turn.

Equally affected by the tur-moil but not directly involved in the privatisation plans were the 28 statutory water companies which supply about a quarter of the UK population. They operate within strict financial constraints and were not seen by the Government as a blueprint for the privatisation of the authorities.

head of the water directorate at the Environment Depart-



**CONTENTS** 

Leisure

Pricing policy

Profile: Gordon Jones 2 privatised authorities and their powers to regulate other people; potential abuse of monopoly power; guarantees on the pro-tection of the environment;

whether flood protection and sea defence should be left with the privatised authorities or kept in the public sector; and pricing policy. "Every time we thought we had solved one issue, two more took its place," says one participant in the negotiations. Third, the political climate

Third, the political climate was looking ominous. The case for privatisation, whether it be strong or weak, had simply not been sold effectively. The Alliance parties as well as Labour and the trade unions were strongly opposed. The natural reaction of people when asked by opinion pollsters of the writing off of debt to make the authorities more essential monopoly, was one of hostility or cynicism, and this message got through to many term debt, mostly to the

International comparisons

Equipment Profile: Len Hill

The water authorities 5 Conservative peers and MPs. The passage of such a com-plex Bill through Lords and Commons towards the end of a Parliament would have been

fraught. It would have provided ideal ambush and filibuster territory for the Bill's opponents. Fourth, there were potential legal problems over whether the Government had the right to sell an industry it had paid the local authorities no compensa-tion for in 1973, and over a

court case brought by Nalgo, a water industry trade union, against Thames for spending money on furthering the cause of privatisation before Parliamentary authority had been given

Mineral waters Consultants Technology

The water companies

Regulation

borrowing.

World Water '86

Profile: Roy Watts

Water Supply Decade

These have had the effect of

driving up charges more than

the water authorities wished as well as bringing about dramatic

The Government's aim of making the water authorities self-sufficient and therefore no

burden on the public sector borrowing requirement has seen

less than the industry sought. Turnover is £2.3bn.

The rate of return on assets

Profile: Maurice Lowther

them £500m a year in interest Also still to be decided was the method of flotation. The Government's initial proposal was to sell the authorities off

individually from the end of 1987, probably starting with Themes, the biggest and most profitable (net profits of £150m in 1985-86 on a turnover of What the privatisation attempt

has done, by common consent, is to continue the trend in the industry towards increased profitability and greater efficiency, caused partly by sharper management and partly by Government police Government policy.

Much of the tension between

the authorities and the Govern-ment has come from the imposition of current cost accounting methods linked with the imposi-tion of punishing financial

Biologist at work at the Water Research Centre. wide range activities in which the industry is involved has necessitated continuous programmes of study

1

is set at 1.6 per cent for 1986-87 based on the CC method of accounting, and this is up from 1 per cent in 1984-85 and 1.4 per cent last year.

The pace of introducing new technology has quickened, and the industry has been remarkably free of industrial disputes. What the industry now wants is to ensure that these trends con-tinue, and to develop interests away from the core activities of water supply and sewage treat-

In 1985 the economic value of water industry activity, measured by combined spending on capital works, opera-tional and ancillary activities, was about £2.5bn. This gives it a significant place in the UK economy as a whole

The range of activities is also much wider than is generally realised. As well as water supply and sewage treatment and disposal, it involves coastal protection, flood alleviation and land drainage. viation and land drainage, environmental protection, recreational amenities includ-ing fishing, and overseas con-

sultancy work.

There is also the issue of domestic metering, advocated by some in the industry but opposed by others. Substantial trials are to be held in the next few months to see how feasible national metering would be.

A new basis for charging would have to be found in any event if the Government goes ahead with its plans to abolish local rates, on which water charges are based, and to subgains in efficiency and produc-tivity. Manpower has dropped from more than 62,000 in 1981 to under 51,000. stitute a community charge or poll tax after 1990.

The industry now has little option but to await the outcome of the next election before it knows where its future lies. If Labour wins, or if the Alliance holds the balance of power, there will be no question of privatisation.

a shift from 1974 when the industry borrowed almost as much as it invested, to 1980 when it was 60 per cent self-financing, to 1986-87 when it will finance 90 per cent of its Even if the Conservatives retain an overall majority, it is by no means certain that water privatisation would be high on the political agenda. What the Total investment in the industry will be more than last few months have confirmed is that water is, as everyone knew, a unique commodity that £900m next year, a figure the Government regards as adequate although it is 13 per cent needs special treatment.

**Richard Evans** 

# You're looking at a multi-billion pound ndustry hard at work. people, more than 300,000 miles A river

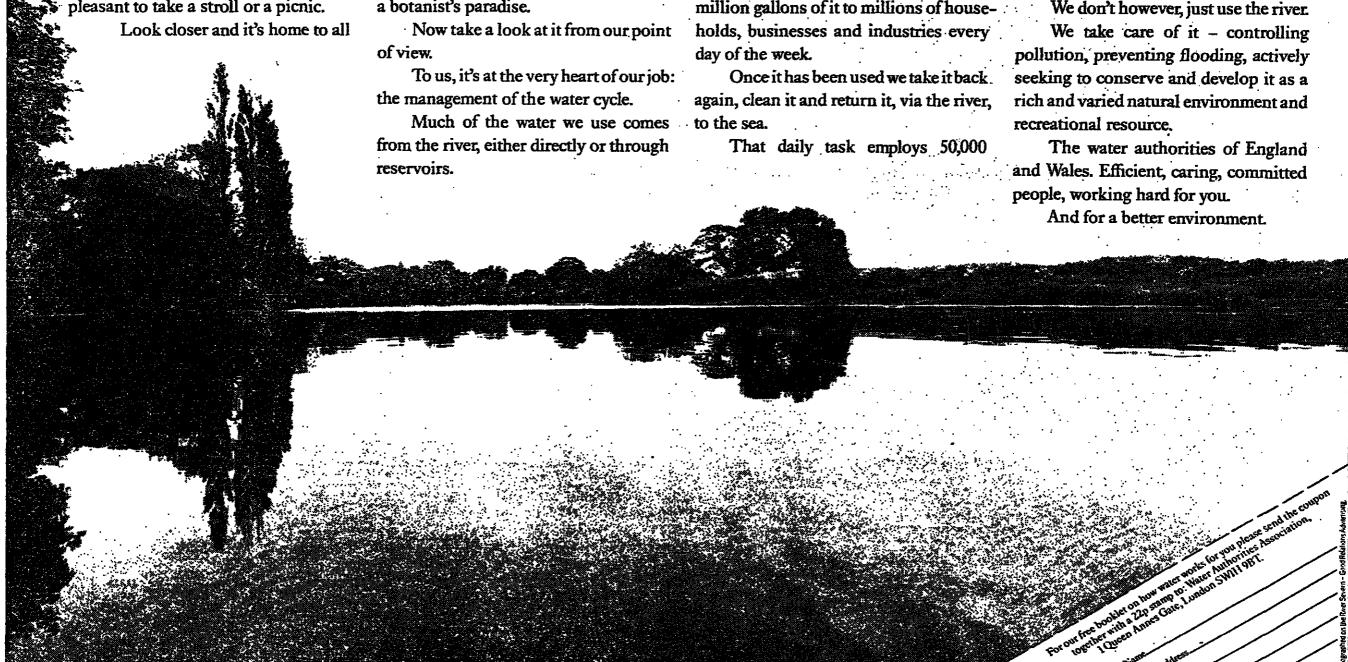
One of the thousands we care for in England and Wales.

At first sight it's somewhere pleasant to take a stroll or a picnic.

manner of fish, an ornithologist's delight, a botanist's paradise.

We take it, treat it and deliver 3,600 pumping stations and treatment plants. million gallons of it to millions of house-

of water supply pipes and sewers, and several thousand reservoirs,



# Development geared to attract tourists

KIELDER WATER, in North-umberland, the largest artificial lake in Western Europe, would meantime Northumbria has a future fordshire to Stoke Newington, will be abandoned. Conservationists are outraged. lake in Western Europe, would be an embarrassing failure if it were not such a conspicuous

It was conceived in the 1960s to cope with a surge in demand for water in the North East of for water in the North East of England—a demand that never materialised due to the sharp-ness of the region's industrial decline. Now Kielder serves mainly as a sport and recreation area of distinction.

Northumbria has always been beautiful. But its northermost reaches have been best known down the years as a wild and remote place. Kielder, with its highly developed water sports and camping facilities, not only adds to the attractiveness of the scenery; crucially, it attracts

There is the Matthews Linn There is the Matthews Linn Fishing Centre, the Leaplish Recreation Centre, the Whick-thorpe Cruiser Base and whole stretches of open water, ideal for everything from idling to water-sking. Development is continuing every year, and the lake and its surroundings—in-cluding the massive Kielder Forest—are already among the prime tourist attractions of the

Of course, Kielder Water also has a job of work to do. It is the key man-made resource of a regional water grid created by the Northumberland Water Authority and, as such, helps provide consumers throughout the North East with their daily

water supplies.
It feeds into the River Tyne and can transfer water through a pipeline and tunnels to the Wear and the Tees. Water from Kielder Water has even been exported by tanker to the thirsty towns of the Arabian

Yet without the tourist and recreation industry that has grown around it, Kielder would be dangerously close to being a white elephant. The lake was a white elephant. The lake was completed at considerable expense in 1982, and the gap in the North East's industrial prospects between the optimistic 1960s and the painful 1980s is acute. Recreation, intended to be a peripheral activity, has become very much Kielder's stock-in-trade. pense in 1982, and the gap in the North East's industrial prospects between the optimistic 1960s and the painful 1960s is acute. Recreation, intended to be a peripheral activity, has become very much Kielder's stock-in-trade.

Is Northumbria any the water infrastructure has been created, capable of contract to clean up the Ganges, at an alarming rate, so that the most seemingly idylic of the most seemingly idylic of countries of the most seemingly idylic of the most seemingly idylic of restore the health of its primary cal killing fields.

The National and Local Government Officers' Association (Nalgo), which is opposed water supply network with a privatisation, argues, among other things, that the environment and water quality of England and Wales would come under threat if the industry

new recreational resource, providing scores of jobs and pleasure for thousands. It was

pleasure for thousands. It was not what was intended, perhaps, but the benefits remain.

Elsewhere in England and Wales, examples abound of sport and recreation amid the aquatic environment. Water authorities are highly conscious of their duty to provide access to rivers, lakes and reservoirs. They are equally awars of the need to conserve the landscape and protect the wildlife that

and protect the wildlife that flourishes within it.

The one constraint, as far as the authorities are concerned, is that the public should neither foul the water nor intrude upon essential installations.

essential installations.

Mr Tony Ellis, of the Water
Authorities Association, is
heavily involved in the recreation and conservation end of
the association's work. He
maintains that the first duty of a water authority is to ensure a continuing supply of pure, pollution-free water, everywhere, from streams to river

estuaries.

Fish, he says, are the litmus test. If they can survive and thrive—as they have begun to do in recent years in the lower reaches of the Thames—then, clearly, disaster has not struck.

All water authorities look after large areas of the land-scape. They control whole streams and rivers. Some—as in the North West, Yorkshire and Weish Water—are responsible for substantial catchment areas around reservoirs; others, like around reservoirs; others, like Anglian Water, are in charge of lengthy stretches of coastline. They are each engaged in conservation.

Thames Water has an envisible reputation for environmental purity, gained primarily through its restoration of life to the Thames itself, Such, in-deed, has been its resulting fame that the Indian Government this year gave Thames a contract to clean up the Ganges.

Conservationists are outraged. they fear that the New River, together with its associated reservoirs in North London, will be sold off to the highest bidder and used for development purposes. Thames has given assurances that it will sell only to "sympathetic" bidders. Not everyone is satisfied.

The authorities themselves are worried about the awesome responsibilities they sometimes have in relation to the preserva-tion of Britain's coastline. Anglian water, for example, is deeply concerned about the deeply concerned about the steady erosion of the Lincolnshire coast by insidious waves that bore into the cliffs and undermine even specially-constructed sea defences.

Millions of pounds are already being spent by Anglian in a bid to stem the erosion, but more is needed. Only the Government, it argues, can come up with the necessary funds. The Government, while admitting the "urgency" of the case, continues to review the situation.

the situation. All 10 of the large water

authorities—and a number of the small, statutory water companies as well—are striving each year to maintain a balance between safe, clean water and the desire of the public to visit watery places.

Pollution is an unending problem. In parts of the country, notably the industrial heartlands of the Midlands and the North, factories have for years spewed chemicals and other impurities into rivers and streams. More recently, at least since the end of the Second World War, these dirty factories World War, these dirty factories have been joined by dirty agri-

have been joined by dirty agricultural practices.

Silage, which leaches through farmland into the water table, along with cow dung and excess fertiliser, finds its way into rivers in quite concentrated form, causing many to decline at an alarming rate, so that the most seemingly idylic of landscapes can often be chemical killing fields.

The National and Local Government Officers' Association (Nalgo), which is opposed to privatisation, argues, among other things, that the environment and water quality of



Windsailing on Kielder Water. A onec remote area now draws paying customers for a wide range of leisure pursuits

were to be denationalised.
Nalgo maintains that passing
on the responsibility of maintaining water, sewage and
environmental standards to prienvironmental statutates of par-vate bodies "which are found to be primarily motivated by making profits rather than the public interest," entails grave

It claims that sewage treatment has been seriously under-funded in recent years (by publicly-owned authorities), leading to an increase in fouling of premises and pollution of rivers, and says that under a privatised system this is likely to worsen.

The Water Authorities' Asso-ciation does not agree. While not speaking for privatisation as such, it makes the point that pollution control is a central

feature of water supply that could not be reduced under privatisation. Moreover, it points

out, private authorities would be bound by statute to the protection of the water in their

The problem lies with industry and agriculture, and the cure is a matter for legislation. In the meantime, authorities have done much up and down the country to raise standards and are devoting themselves, in co-operation with local authorities and private enterprise, to the development of the sporting and recreational potential of rivers and reservoirs.

Most developments are an attempt to harmonise water further fruit.

### Pricing policy

# Demand for assessment

private consumer, was small in "Dallas" half the nation and bore little comparison with appears to go to the lavatory. Today, that situation is changing. Not only is the industry obliged to step up investment in infrastructure but the Government has imposed new financial targets which oblige the 10 authorities in England. in infrastructure but the Government has imposed new financial targets which oblige the 10 authorities in England and Wales to push up their charges far beyond the rate of inflation.

As charges have risen, the demand has grown for a fairer means of assessment of who has

means of assessment of who has used what. The notion that water should be costed in relation solely to the rateable value of the consumer's property is almost universally rejected and is set to be replaced by variable tariffs and metering.

The idea of metering is no-thing new. Some authorities

have been encouraging the idea for years, and every household and commercial user has the right to demand that a meter be installed. Even so, the fact is that most premises are un-metered, and the cost of installing meters throughout the land has been likened to that of converting homes to North Sea gas in the 1960s.

Nor is that the end of the matter. Meters as presently in-stalled are mechanical objects belonging to the steam age. They leak and are virtually incapable of registering small throughputs of water, so that consumers tend to be undercharged. Moreover, they can only be read by visiting inspectors, and when the bouseholder is out an assessment is made

is out an assessment is made that is frequently incorrect. In the electronics age, what the industry requires is the capacity for remote reading, preferably as part of a unified system also used by the gas and electricity boards. The technology already exists. A "black box" would be installed in each home or commercial property that would monitor water (and gas and electricity) accurately and relay the information to a central computer. Charges for each utility would be based on black box readings.

box readings.
For the customer, a black box meter would have several advantages; he would be charged only for what he used and he would be able to decide which of a number of available tariffs to employ for a collection and the enjoyment of specific purpose. For example, water, Few are as single a washing machine could be mindedly recreation-centred as made to come on in the middle of the night, when both water ment help in the future, the sand electricity charges would be charged.

De cheapest.

It is not generally realised Government should give subthat there are water surges stantial financial support to the like electricity surges. For ex-

Last year, a joint govern-ment/water industry committee on metering, headed by Mr Roy Watts, chairman of Thames Watts, chairman of Thames Water, said that metering could reduce average domestic water consumption by some 12 per cent. The report argued that the present system of charging, based on rateable values, gave no incentive for consumers not to waste water, for example on over-watering lawns. over-watering lawns.

WATER AUTHORITY CHARGES FOR 1986-87 Anglian 84.4 85.2 83.6 99.6 110.9 Northumbrian North West Severn Trent Southern South West Welsh Wessex Yorkshire

Most consumers, it concluded. £6.25 a year. But the industry is opposed to the mass introduction of tradi-

tional meters.
"It would be a nonsense to. put in 19th-century technology when the black box is just around the corner," says Mr Trevor Newton, finance director of Yorkshire Water.

"It would feel wrong to take

on an army of meter readers they are not completely down-when the industry is trying to hearted. "Our aim is to defeat

when the industry is trying to cut back on manpower," says Mr Roger White, technical director of the Water Authorities Association (WAA).

Trials on all types of metering, arising, from the Watis Report, are expected to begin later this year, but if is likely to be severa! years before an industry decision is taken. In the meantime, the cost of the trials is proving politically sensitive.

Walter Ellis that there are water surges stantial manufact outpress to extrals; the Government, how-

PRICING IN the UK water industry used not to be contentious. The average water bill, for both industry and the private consumer, was small and bore little comparison with appears to go to the fewners.

ample, on warm summer eventures eventures the garden sprinklers ings the garden sprinklers come on together at dusk, while privatisation will be lost unless we deal with this point," one deal with this point, one deal with this point, one deal with this point, one deal with the point, one deal with the privatisation will be lost unless than the deal with this point, one deal with this point, one deal with the private consumer. Government involvement involvement involvement involvement is blatant. In 1985, when most authorities wanted to hold down increases to the prevailing rate of inflation. of inflation, the Government insisted on an average rise of

10 per cent. This year and next it is the same story: ministers wand authority incomes boosted so that debts outstanding to the Treasury can be paid off faster—thus boosting state revenues—while the authorities themselves become accordingly, more attractive to investors.

Charges are now based an four criteria:

Government performance aims (whereby authorities reduce operating costs to a fixed target over a cycle of three

The External Finance Limited (the amount authorities can borrow from external sources)

Minimum rate of return on assets (set this year at 1.60 per cent)

Last year, the industry was furious about the imposed higher charges.

At Yorkshire, Mr Newton says that this board's firm policy is that charges should not exceed increases in the retail price index (RPI). "But since the Government fixes our charges by setting financial targets, the board's intention is frequently

board's intention is frequently frustrated." Most consumers, it concluded, were likely neither to benefit nor to lose by the installation of meters. The extra cost of installing existing meters and billing on a meter basis would billing on a meter basis would down the rises by increasing be £4.75 per household, while the economic benefits to users would vary between £2.50 and \$62.25 a year. average of 3 per cent a year, charges have been rising by closer to 10 per cent.

"It's difficult to motivate management and workers when they are under pressure to in-crease efficiency and then do not see the improvements made reflected in charges. It is a very demotivating regime."
Yet, at Yorkshire at least,

the Government's performance targets. We beat them this year, and we'll beat them this year. times borrowing money to fund-investment. It is unhappy that its charges policy has been undermined by the Government's revenue requirements and—with the notable excep-tion of Thames—will probably not be too unhappy that the drive towards privatisation has been at least temporarily halted.

Government and the authorities and in the meantime is happy

He was born in Swansea in 1927 and spent four years in the Royal Navy after graduating in chemistry from his local university. Years with the British Iron and Steel Research. Association and Esso followed, and then a stint at English Steels, then still in private

Steels, then still in private sector hands.

and in the meanting is happy to get on with running Yorkshire Water as a business. I. He was born in Swansea in

Walter Ellis

# E ONE WORD DICTIONARY FOR WATER TREATMENT PORTALS WATER TREATMENT IS A CATIVE WORLD-WIDE OFFERING PROCESS DESIGN, ENGINEERING AND SPECIALITY CHEMICALS AND SPECIALITY CHEMICALS FOR WATER EFFLUENT SEWAL AND PROCESS LIQUIDS INCLUDES THE LEADING SPECIALIST THE LEADING SPECIALIST THE LEADING SPECIALIST ORGANISATIONS IN THE UK ORGANISATIONS IN THE UK AND OPERATING COMPANIES AND OPERATING AND AISTEAL AFRICA. ASIA AND AISTRA AFRICA. ASIA AND WORLD'S LEADING GROUPS OF WATER LEADING GROUPS OF WATER TREATMENT COMPANIES. fication equipment: [Source: Stella-Meta Filers. Ed. (925 689 2360]: process figured separation by reverse usno-cast figured separation by reverse usno-dairy and fruit june industries. [Source: PC.]. R.O. Div. Ed. (925 682 2360) portals I. n. abbre. Pertals Water Treatment Limited div. Portals Holdings in the Limited div. Portals Holdings in the PLG. Largest group of UK water treatment companies. Syn: complete capability seem companies. Syn: complete water water and waste water two and half thousand treatment—two and half thousand employees worldwide. Locally augusticated the properties of the 2360] -6. fitting (n., esp., usil. pl.) fixture(s); for underground water mains and service connections; push-fix underpressure usins driling and underpressure usins [Source EW] tapping equipment. Tabled & Co. Ltd. Ed: 0962 65511] ise in was and half thousand of two and half thousand or worldwide. Locally auto-in Europe. (U.K. has five main in Europe. (U.K. has five main one companies). Middle East, one companies. Middle U.S.A. rapping equipment of the 1962 ossers after a rate of the final blane, u. makes water after of the distribution of the first design for the first are understand design for the first are understand mment or corporate government or corporate government or corporate government by or nown has built arteral of the kinged bouble sonier becaused and most of the U.K. waterof city or sown; potable santer of city length potable u.K.; water-works and most of the U.K.; water-potable and most of the U.K.; water-works; operates as process, electrical works; operates as process, electrical works; operates an end contractor, currently operated and contractor operated and c dustrial in power st. rovement of existing works. Re: 01-579 1511 ] Indiana. Lid. 18: 01-579 1511] S. indistrial, a. Designed for industrial use, unite, effluent and process squish treatment; a high proportion of a power stations in countries throughout the world operate on their treatment in world operate on their treatment systems: [Source - Permunit. Boby Projects. 18: 01-560 5199] -4.1 of F medi indi U.K friend sand, 2. conforming to a speciality Chemical and sales and development and sales formulation for particular application; formulation for particular appropriate, microbialogical prediction and household market by sales appropriate, microbialogical formulation for factories, hospitals, and other confined premises and other building premises and other building formulation for factories, hospitals, and the sales appropriate app ाटश्र Portals Water Treatment Periods World Tracitment Limited. Oldfield Lodge, 156 Bridge Road, Moldsminerd, Bestshine SL6 8DF Tel: 0628 34354 , Teles: 849067 FWT MHD ROX: 1624 781481

### PROFILE: Gordon Jones

ACCORDING TO his staff, Gorden Jones, chairman of Yorkshire Water, is first and foremest a manager.

"He is not some rabid privatiser," one senior aide said of him recently. "He is sustomer-oriented, with a marketing background. He brought perceptions of customer needs that simply weren't there before. And he has really bested up our efficiency a hell of a lot."

Since taking over at Yorkshire in 1983, Jones, a Weishman, has presided over fairly rapid slim-down of the authority's workforce, from 6,200 to 5,400, and a further 400 redundancies have still to Yet there has been little

cuttry from the unions.

Everything has been done after consultation and negotiation, and there is a feeling among the workforce that they are not being asked to accept any change that is not mireasonable.

That is a tribute to Jenes That is a tribute to Jones,



who believes in keeping people on his side as far as possible. He said recently that his philosophy was simple: "The best way to organise any suffit is to get the best out of people, whether they work for the Army, the steel industry, the oil industry or the navy. You have to get them working convergently and to feel genuinely that, in the case of Yerkshire Water, they are

water people and their views

water people and their views matter."
Jones himself believes in privatisation. But he is not a proselyte and, as chalrman not only of Yorkshire Water but of the Water Industries
Association, is careful to maintain a publicly-neutral stance on the subject.
He is waiting for the right

He is waiting for the right convergence of thinking to emerge between the

Most recently, he was a director of Thomas Ward Raw Materials, leaving shortly after it was taken over by Rio Tinto Zinc in 1982.

Line in 1982.

In Leeds, he is concerned very much with the organisation of the campany and does not involve himself day to day with the operational side. He is hoping to move the authority's corporate headquarters to a new building housing just 36 people, separated both from the financial directorate in Bradford and the various operational and the various operational divisions.

Walter Ellis



### BRITISH WATER INTERNATIONAL

The Overseas Consultancy Company of the U.K. Water Authorities British Water International's services cover all aspects of the water and wastewater sector. The U.K. Water Authorities are responsible for many different aspects of water management. -sewerage and sewage treatment

-development of water resources

-water supply and distribution -control of pollution

-river management

---recreation and fisheries Through British Water International the water authorities and associated organisations can offer a wide range of services based on the knowledge and experience acquired in the management of natural hydrological divisions of the country.

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 Institutional development Technical planning and development

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 Administration

-land drainage

-sea defences

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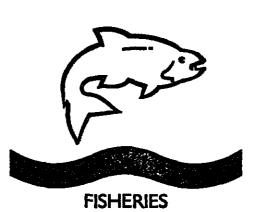
British Water International offers a unique experience:— —it is the experience of the managers, engineers, scientists, accountants, operators and craftsmen of the British Water Industry.

For further information contact: Rebin P. J. Turrell, Chief Executive BRITISH WATER INTERNATIONAL LIMITED James House, 27 London Road, Newbury, Berkshire RG13 LJL Telephone: 0635 30777 (International: +44 635 30777) - Telex: 848925 NATWAT G

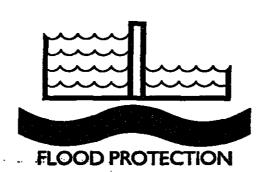
# There's more to running water, than running water.







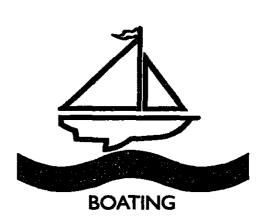


















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provision and maintenance of Recreational Facilities.
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### International comparisons

# Charges raised for improvements

THE UNEXCITING nature of public utilities, water especially, is reflected in the fact that UK investors appeared surprised that the Government should have thought of privatising the water authorities in the first

Yet in some countries, water supply and sewerage has been in private hands for years. In France, 30m consumers — 60 per cent of the total—receive their supplies from private com-panies. Paris went private only in 1985 and is now in the joint hands of the Compagnie Gene-rale des Eaux, which supplies the Left Bank and the Société Lyonnsise de Eaux, which takes charge of the Right Bank.

Significantly, perhaps, the two companies have only taken control of water supply. Sewerage and purification the dirty end of the business remain the responsibility of the Hotel de Ville.

More significant still for the citizens of Paris, water charges since privatisation have risen by 16 per cent for most consumers—the exception being those fortunate inhabitants of the old city, where the water supply network remains pub-licly-owned and where water is sold at nearly half the cost of that piped to its neighbours.

The two main suppliers say they have no alternative but to increase prices. New investment is required, they say, and it is up to those who use the water to pay for the improvements

required.
Elsewhere in France, the Elsewhere in France, the trend is increasingly towards privatisation, with the major cities in particular moving period went up by nearly 15 result in significant increases in period went up by nearly 15 result in significant increases in period went up by nearly 15 result in significant increases in period went up by nearly 15 result in significant increases in the future.

One complication is the existen water industry business but there have long been other activities and interests. Her Hill was deputy Lord Mayor of Plymouth from 1966-67, vice chairman of Plymouth City Councils education. that, with a few obvious excep-tions, most of the previous suppliers were small, local authority concerns. The French love for centralism had not affected water.

affected water.

Overall during the 12 months to the end of June, water charges rose by 9 per cent, mainly as the result of a 32 per cent increase in water taxation. This is the highest percentage increase recorded by National Utility Services, the world's largest tariff analysis company, with offices in most advanced countries.

for many French people by the fact that privately-owned companies tend to charge a premium of as much as a third

One complication is the exist-ence in some regions of rival networks, which may boost the Towards the bottom of the prices scale, NUS again found theory of competition but involve much unnecessary that Italy continued to give out-standing value for money. Only Canada charged less. involve much unnecessary duplication of effort. Ways of sorting out this economic dilemma are now being sought. More than italf of Italy's

water supplies are provided by privately-owned consortia, and customers are metered so that present more than 22,000 water they know exactly how much utilities in local authority hands they know exactly how much water they are using and can gauge when it might be prudent to turn off the tap. and a further 38,000 private companies. The maze of connections is bewildering, resulting in an undoubted loss of efficiency that is held at bay only by American energy and enthusiasm for the job.

mittees made up of local and central government representatives.

However, while therees in states. AWW has annual revenue of about \$450m and

Charges have to be approved by state utility commissions, and methods of payment vary— with most local authorities seeking only to cover their cesis.

Metering in large towns and

cities is common. For the 12 months to June. American charges over the previous year. Substantial increases in the urban glants of New Jersey and Los Angeles did, however, force the national

average up 8 per cent.

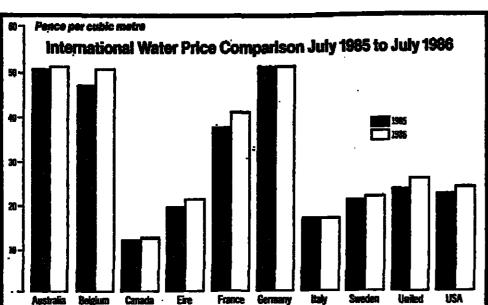
The example of Japan is very different. There, water is not regarded by anyone as a marketable commodity, and pri-

very far up the political agenda. Nearly all of Japan's water, which comes mostly from the mountainous interior and has to be piped to the thickly-populated coastal fringe, is supplied by local authorities. Tokyo's interests are represented by the capital's prefectural government.

Hardly any private suppliers exist in Japan, and those that do are mostly in remote dis-tricts, where they operate under government licence. Metering government licence. Metering is normal, and costs scarcely

In Los Angeles, the price rise Probably the factor that links was due to a change in the water network operations most tariff structure, which come is the universal acceptance by pelled major seasonal con-sumers for example the many owners of swimming pools—to the importance of the job and the relative cheapness of sup-pay for planned intrastructural plies seen against other utilities. Increases in costs may have raised eyebrows in the past: only now are they be issue in politics.

Walter Ellis





### PROFILE: Len Hill

Los Angeles: tariff change has hit seasonal consumers

MR LEN HILL is the only chairman to be appointed by government to serve three terms of office—his third term as chairman of South West Water was announced in January.

He is more all to a chairman in a chairman i

He is unusual in other

He is tunusual in other respects, too. He is certainly the only train driver among the water authority chairmen, and is almost certainly the only committed Labour Party gupperter because the chairmen are chosen by the government of the day.

Mr Hill, a cheerful 62-year-old has also hear chairmen eld, has also been chairm of the Water Authorities Association, the industry's trade body, since it was created in 1983 on the abelition of the National Water Council. He is expected to step down this autumn in favour of Mr John Bellak, chairman

Mr Hill joined the railway industry as a 16-year-old before it was nationalised and



came a train driver 15 years later. During his initial years as chairman of South West Water he continued to drive trains and was an efficial of the railway union Asief for 25 years.

He was leader of the Labour



Mr Hill became chairman of West of England News-papers in February this year and is also chairman of

Richard Evans

Council when Mr Denis Howell, then Minister in charge of the water indu

offered him the SWW chair-

Most of his time is spent

City Council's education committee from 1963-66 and

nominated party spokesman on education.

He is a magistrate in Plymouth and a member of the

board of visitors of Darimoor Prison.





The system of charges is complicated, with private and municipal suppliers each regu-lated by provincial price com-mittees made up of local and

### Equipment

# Momentum for greater efficiency

WHETHER OR not the water industry ever privatises, the momentum for greater efficiency which has built up within it over the last few years is still

over the last rew years is still gathering pace.

The industry's management is now expected to manage its assets, not just to account for them. These assets are currently valued at about £26bn, two-thirds of which are underground.

ground.

The property of the National Economic Development Office (Nedo), many of these assets are old and in need of repair.

are old and in need of repair.

"A substantial amount of expenditure is required for preservation or renewal," it says in a 55-page report called The Nation's Infrastructure—Water, published in March by Nedo's Civil Engineering Economic Development Committee.

"Capital investment by the water industry halved between 1974 and 1980, reflecting slower growth in demand, improved appraisal techniques and constraints on external finance. There has been a modest increase in volume terms, of 30 per cent on the 1980 level.

"Deficiencies in levels of "Deficiencies in levels of services are related to the conditions of assets, both below and above ground, and remedy-ing them will require con-tinued capital investment. "Authorities have confirmed

that knowledge is incomplete, in particular on the location and condition of many of their underground assets."

Recommendations were made by Nedo. which included improvements in knowledge of the location and state of underground assets, and the provision of better information en the relationship between capital investment, the condition of assets, and levels of service. The Water Research Centre (WRc) is currently developing (WRc) is currently developing a computer system to superimpose strategic information on 
top of conventional accounting 
reports, creating models of the 
relationships between assets 
and between their component 
items by the use of relational 
database techniques.

The WRc, an international 
leader in its field, is an independent company employing 
about 600 people. Funded 
primarily by the water industry, 
it offers research and con-



Evaluating the performance of a water meter at the Water Research Centre

It also plans to combine digital mapping with relational database techniques. This will help it to model the physical location of assets as well as their logical interrelationships.

A project group of water authority chief executives has been established to work with the DCE Information Management Consultancy, contracted by the WRC to undertake the SISP project, in order to determine information systems requirements in the asset management areas.

In municipal water and effluent markets in the UK and abroad export markets.

BEWA is the representative trade association of the treatment plant industry whose claims, includes the markets in the leading or abroad export markets.

BEWA is the representative trade association of the treatment plant industry whose claims, includes the markets.

The association collects sales statistics from its members amountly intervals as they

ment areas.

The DCE Information Management Consultancy is a leading advocate of the use of information as a strategic tool

the WRc has decided to standardise on Relational Technology's Ingres relational data worth £150m in 1985, over 60 hase management system.

It also plans to combine municipal water and effluent digital management markets in the UK and decided.

statistics from its members annually, and returns of orders booked are collected at sixmonthly intervals as they provide an indication of market

Both within and outside the association, total figures are strongly influenced by the few database techniques.

The WRc, an international leader in its field, is an independent company employing about 600 people. Funded primarily by the water industry, it offers research and consultancy services worldwide in 1984-85 according to Nedo. A government White Paper on sultancy services worldwide in that this is planned to increase to £867m in 1985-89. Apart from piping and the basic construction materials, and (Sisp) project will look at the data necessary to provide the essential information needed by the few projects of exceptional size. John Hills, BEWA's director and secretary, estimates that the government white Paper on public expenditure indicates to facilities to identify them for the first from piping and the basic construction materials, and (Sisp) project will look at the data necessary to provide the essential information needed by the few projects of exceptional size. John Hills, BEWA's director and secretary, estimates that the government white Paper on public expenditure indicates to facilities to identify them for few of breaking confidentiality. This information would be difficult to construct from alternative sources because some expenditure goes to suppliers of equipment, plant and instrumentation water industry operations to information as a strategic tool association, total figures are strongly influenced by the few projects of exceptional size. John Hills, BEWA's director and secretary, estimates the projects of exceptional size. John Hills, BEWA's director and secretary, estimates the projects of exceptional size. John Hills, BEWA's director and secretary, estimates the projects of exceptional size. John Hills, BEWA's director and secretary, estimates the projects of exceptional size. John Hills, BEWA's director and secretary, estimates the projects of exceptional size. John Hills, BEWA's director and secretary, estimates the projects of exceptional siz

Companies House.

In the association's annual report to March 1986, Mr Chris Shirley, chairman of the Dewplan Group and of BEWA, says suppliers have to seek more opportunities in overseas

markets.

In 10 years, export orders have moved up from 29 per cent to 57 per cent of the total orders booked. The British Water Industries Group. (BWIG), to which 29 BEWA members subscribe, has working groups on Overseas Business and on Specifications for Overseas Projects.

"It has been a long and hard recession which for our members is not yet over. It would be pleasing to report that we could now profit from a strong home market but this is not to be and many of our member companies have to seize their opportunities from overseas.

Nevertheless, the home market still represents a substantial revenue potential for plant and acquirement was least at the contract of the course o

revenue potential for plant and equipment suppliers if the Nedo report is anything to go by. In response to a request from the Department of the Environment in November 1983, water authorities submitted estimates of longer-term investment needs to remedy defects and improve standards of service by the turn of the century.

An overall estimate of £16bn was made, at 1963-84 prices, or

was made, at 1983-84 prices, or

An overall estimate of £16bn was made, at 1963-64 prices, or £1bn a year.

The first priority was to maintain standards, meet the demends of new housing and industrial development, overcome the worst instances of unsatisfactory water supply and foul flooding of dwellings, and maintain existing infrastructure so that the current backlog of underground dereliction does not increase.

The annual investment need for this alone would come to between £875m and £735m.

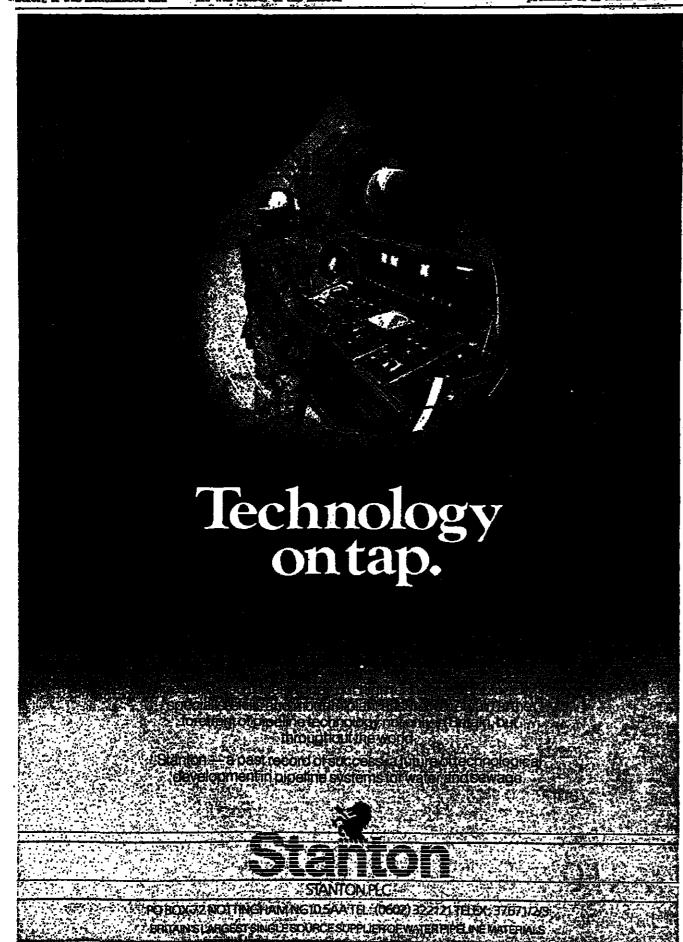
"Longer term investment strategies are becoming increasingly essential," the report adds. "Until comparatively recently, the emphasis of capital expenditure has necessarily been on dealing with the worst and most obvious problems.

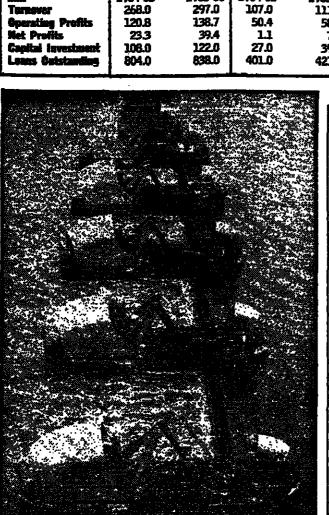
"The balance is chassing and fine the strategies is chassing and the strategies are becoming increasingly essential." The balance is chassing and the strategies are becoming increasing with the worst and most obvious problems.

dealing with the worst and most obvious problems.

The balance is changing as the worst deficiencies are overcome, and the need is increasing for more comprehensive appraisal systems as an integral part of an overall strategy.

There needs to be a closer connection than is apparent at present between capital work programmes, asset condition, and levels of service so that the impact of investment on assets impact of investment on assets and levels of service can be seen," the report says.





11 \_ \_\_\_ <u>[</u>

The Thames Barrier: prestige project which protects London from flooding in the event of very high tides. It is highly visible evidence of the many areas of water management in which the water authorities are involved. --- ....

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1984-85 455.0

306.0

501.0 144.7 184.3 104.8 149.9 138.0

Water companies

WHER COMPAN BOURNEMOUTH BRISTOL CAMERIDGE CHESTER CHESTER CASTROLIAN EAST SURREY EAST WORCEST EBSEX FOLKESTONE HARTLEPOOL LEE WALLEY MD-KENT

MED-KENT
MED SOUTHERN
MED SUSSEX
MEWCASTLE and GATE
NORTH SURREY

PORTSMOUTH RICKMANSWOR SOUTH STAFFS

177.0 37.5 -2.9 194.0

The regional water authorities and water companies (England & Wales)

187.0

12.2 55.0 41.0 432.0 410.0

1984-85 1935-86 1984-85 225.0 94.0 106.0 57.8 84.8 18.8 11.8 41.0 54.0

Yorkshire 1985-86 248.0 99.3 35.6 99.0 100.0 509.0

Morthumbrian



The consensus was that Thames, Southern, Anglian and possibly Northumbrian without its debt burden were among the more desirable buys; Severn Trent, Wessex and South West were somewhere in the middle; and Yorkshire, Welsh Water and North West were

With privatisation shelved, at least until after the next elec-tion, the authorities have more time to improve their perform-ance and work on their problems. Here is a brief assess-ment of them:

Geographically ANGLIAN: largest of the 10 authorities and one of the most efficient. Profits rose from £23m to £39m last year but it has some difficult

Some mains are in poor condition and some water is tainted because of agricultural chemicals. Has an extensive coastline, including many bathing beaches, and the added complication of the Fens and the Broads.

The authority has a high capital expenditure programme and the third-highest debt burden of the 10 authorities. The key question for Anglian is land drainage: it has far more responsibilities than any other authority, Chairman: Bernard

NORTHUMBRIAN: Smallest area but one of the most efficient authorities, ranking top in population served per employee and turnover per employee, but it serves an area of low population and industrial capital expenditure programme area.

The water authorities

Most notable item in its financial position is a high debt burden, created largely by con-struction of the Kielder dam and reservoir in 1982. An anticipated increase in water demand from industry in the north east never materialised and Kielder, although a great environmental and recreation attraction, is a financial mili-

Operating profit of £58m reduced to net profit of £7m. Chairman: Sir Michael Straker.

NORTH WEST: Fourth-largest

NORTH WEST: Fourth-largest in area and second in population density, North West probably has the biggest problems. Its Victorian infrastructure is crumbling and the region is in industrial decline. River quality, particularly in the Mersey, is dreadful.

The authority estimates the clean-up will take at least 25 years; a £170m improvement package for the Mersey has been launched. Beach quality also a problem. Debts total more than £900m and Dennis Grove, the new chairman, is trying to improve the authority's image.

Hanpower reductions of 18 per cent have also bettered the average. A prosperous population, high charges and profitable. Net profit last year was £38m. River quality generally good. and inherited problems of sea outfalls are being dealt with. Some problems from water discoloration. Chairman: William Courtney.

SOUTH WEST: Serves relatively small region in predominantly rural, sparsely-populated area, but numbers treble in tourist season—one reason why water charges are among the highest.

England's industrial heartland, including Birmingham conurba-tion and the Black Country, plus some upland areas of Wales.

over the past five years. Advanced techniques in use for sewage disposal, including incineration, First authority to employ an environmental archi-tect. Trying to develop overseas

SOUTHERN: One of the smaller regions by area, and 45 per cent of the water supplied is through six statutory water

Operating and management costs well maintained over the last five years and held consistently below the industry average. Manpower reductions of 16 per cent have also bettered the average.

treble in tourist season—one reason why water charges are among the highest.

SEVERN TRENT: Serves
Operating costs per head of the second in both population and the Black Country, third lowest in the industry, blus some upland areas of Wales.

There has been a decline in income is high. Points of con
Trent among the highest.

Cut by 25 per cent. The region cut by 25 per cent. The region ranks second in both population served per employee and turnover per employee. High profile chairman, Potential for recreational relations machine that can income is high. Points of con-

adequacy of the water supply, and cost of cleaning up beaches. Manpower reductions over past five years have not kept pace with the industry average. Chairman: Len Hill.

THAMES: Sixth-largest area but with by far the largest popula-tion, Thames has led the campaign for privatisation and regards itself as the most ready. Strong balance sheet with low gearing; only authority to have reserves greater than net debt. Loans of from repaid last year and net profits were fisher on turn.

net profits were £150m on turnover of £500m.
Major productivity gains in last five years with manpower cut by 23 per cent. The region ranks second in both popula-

cern include low rainfall and adequacy of the water supply, and cost of cleaning up beaches. Manpower reductions over past five years have the trace with the industrial consumers. Another authority authority in the development of information technology for the management of water and sewerage services, allowing costs to be controlled.

With the population con-centrated in the industrial south and along the north coast, operating costs are significantly ahead of the average. Population served per employee is lowest of all 10 authorities. Profits were £12m on turn-over of £187m.

Welsh also ranks 10th in terms of net debt as a multiple of reserves and profits. Chairman; John Elfed Jones.

WESSEX: One of the smallest authorities with little industry. Three large water companies, Bristol, Bournemouth and West Hampshire, account for 55 per cent of water supply.

Charges to consumers high and unit costs have shown a downward trend. Wessex has been a lead

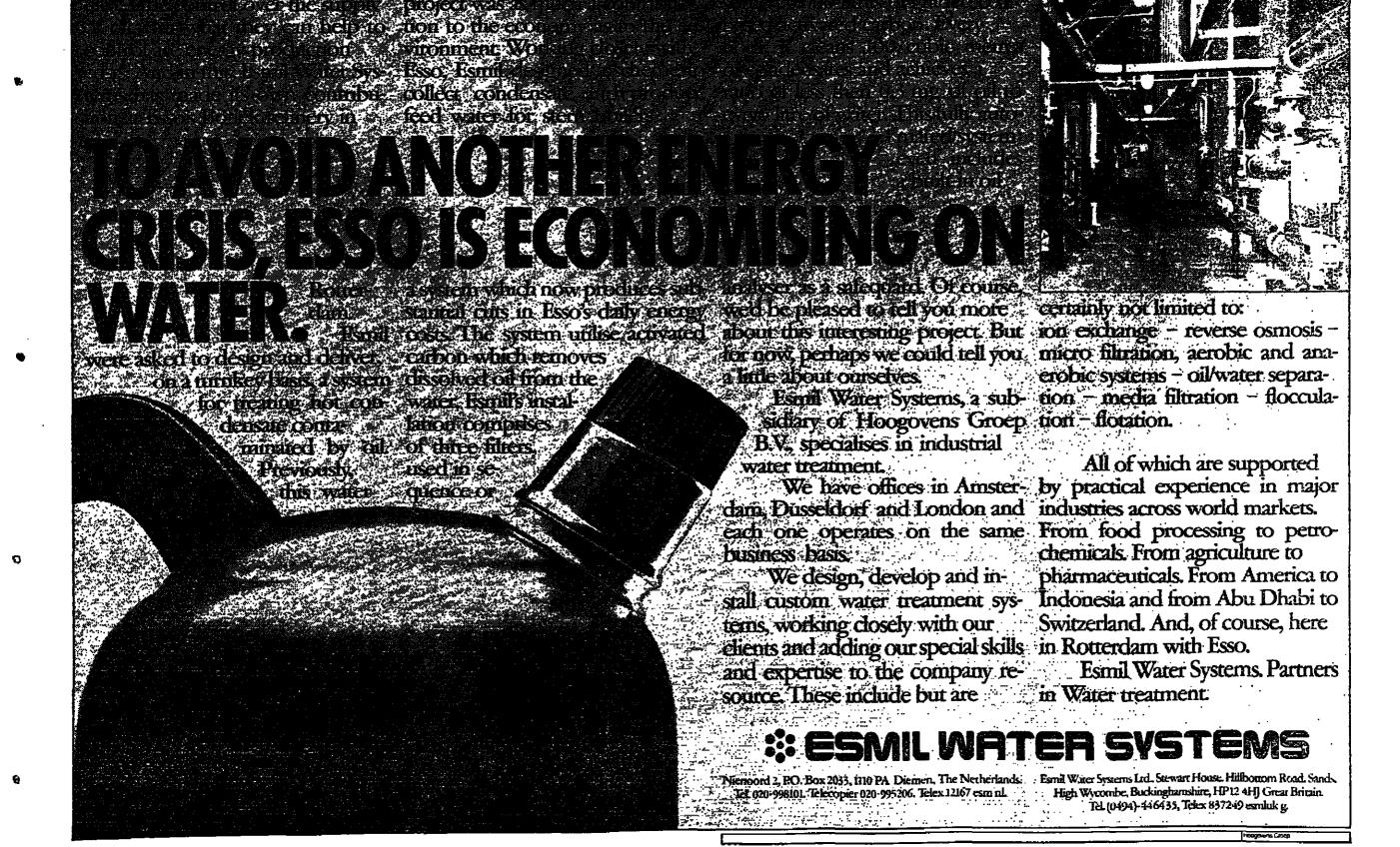
Agricultural and chemical run-off a major pollution problem. Chairman: Malcolm Anson.

YORKSHIRE: Predominantly industrial area with big infra-structure problems: high incid-ence of sewer collapses, polluted rivers, discoloured water and a decline in heavy water-using industries.

Eighth in terms of population served per employee and ninth in turnover per employee. Operating costs have crept up to 10 per cent over the industry average. High capital expendi-ture has led to a steadily increasing interest charge.

Domestic water tariffs are

low, Chairman: Gordon Jones. Richard Evans



# UK market still expanding

THE BRITISH market for divergence between the UK bottled mineral waters is still and France over the type of growing after 10 years of steady bottled water preferred. In the UK 65 to 70 per cent of total

The taste has been firmly established, in a country which until fairly recently regarded water in bottles with suspicion. It was funny, foreign and the market, and sparkling usually both—and proof that other nations and their taps should be approached with the IIK is increasing from

Now the UK market for bottled waters is worth £48m, with sales of 80m litres last

while that represents only 2 per cent of the total UK market for soft drinks, it amounts to a remarkable commercial and cultural change, with a massive in-crease in demand for a product

which used to be absent from people's shopping lists.
Yet the volume consumed per head of the population—an average of a litre or so in 1984, is still small and places the UK far below its European neighbours in the league table

of bottled water drinkers.
According to the National
Association of Soft Drinks Association of Soft Drinks manufacturers and trade estimates, the French drank 72 litres per head of bottled water in 1984, followed by the Belgians (56 litres); the West Germans (54); the Italians (51); the Spanish (27) and the Dutch (9). At Perrier, the French bottled water and market leader in Britain—whose distinctive Indian club-shaped bottles can be found in pubs, restaurants and supermarkets

in 1972 of Aqualac, a company created by Ferrier to exploit control of the winning Franglais slogans "HZEsu" and "Neau calories"—helped to make its name virtually the average Briton will be drinking ten litres of bottled water a year within two decades.

There is also within two decades.

There is also within two decades.

There is also within two decades.

mineral water sales are of sparkling water, which includes Perrier; in France, still (noncarbonated) water dominates the market, and sparkling

per cent of sales.

The still water market share in the UK is increasing. From 25 per cent of total mineral water sales in the UK in 1982, it accounted for 30 to 35 per cent last year. cent last year

According to a survey of 1,000 adults conducted earlier this year by Mintel, the market research specialist, more than a third of those polled drink bottled water—just over double the 1983 fourner—with young the 1983 figures-with young professional people, predictably, leading the way.

Twenty-five to 44-year-olds are more likely to drink mineral water than those in the 15-25 age bracket and the over-45s. Although those in the ABC1 category consume more than the CDEs, there are indications that its appeal is spreading more widely—possibly due to habits developed on overseas trips, and

water business took off in the 1970s, heralded by the formation

ten litres of bottled water a pess of the fact that tap drink year within two decades.

There is also an interesting to multiple recycling: concern share of that market, which

MINERAL WATER ERAND (Percentage shares by volume 1985)

Perrier (Aqualac) Highland Spring (Stirling) (Schweppes) shboarne (Nestle)

as fluoride; worries about the effects of industrial and farming pollution, especially nitrates; and changes in drinking habits with younger people looking for an alternative to

100 100 100

The most rapid growth in demand occurred in the late 1970s, and again in 1983. In 1977 the British drank 6m litres at a market value of £3.5m. Consumption soared by 92 per cent the following year to 11.5m litres (£5m).

litres (£5m).

By 1983 bottled mineral water sales had risen to 55m litres (£85m) before leaping by more

80 and 100 brands on sale, a proliferation which could not be sustained as competition for shelf space grew. According to Mintel, there are now 37 mineral water brands on the

gives it 35 per cent of the total market for mineral water. Its water is drawn from a spring at Vergeze, near Nimes in southern France, known since ancient times but not exploited commercially until 1903-and then by an Englishman. St John Harmsworth, the handicapped brother of the newspaper magnate Lord North-cliffe, took the water himself, believing in its properties, and decided to buy the source, to bottle and sell it under the name of the doctor who had

advertised its use—Dr Perrier. Harmsworth modelled the familiar shape of the Perrier bottles on the Indian clubs with which he exercised. His family, who were bequeathed the spring, sold it, believing it would never amount to much as

still water category is hotly dis-puted. Evian, a French supplier from the Alps, claims it still holds the lead but Mintel reports that Highland Spring, produced by the Stirling Mineral Water Company set up in 1979, has overtaken it.

Supermarket chains have become a critically important outlet for bottled water, and account for half the total volume sold last year.

than a quarter.

In 1983 there were between the business over the past few years results largely from the successful introduction of retailers' own brand labels, which in 1985 claimed 28 per cent of all sales.

J. Sainsbury decided early on
that bottled mineral water complemented its customer pro-file and established its own brand. It now owns a bore hole to the Highland Springs' source in the Ochil Hills in Perthshire, and markets two own labels Scottish Spring (from that source) and Sainsbury's Cwm Dale Spring, as well as being the key outlet for branded



Some of the dozens of brands of bottled water—now a familiar sight in supermarkets

regulations in compelling each supplier to identify their source, which enables consumers to recognise identical water sold under different labels at varying prices.

A further effect of the new legislation is that British bottlers have to declare the fact that most of the native sparkling waters are artificially carbonated, unlike imported brands which often contain naturally-occurring carbon

Growth of the market has prompted some local enterprise, too. Northumbrian Mineral Water, produced by the only water authority in the country to sell its own spring water for bottling, is available in pubs, off licences and shops, and is regularly exported, especially to the Gulf states.

Fiona Thompson

Water companies

# Pioneers hold their political support

IN 1698 William Yarnold, a leading engineer of his day, obtained an Act of Parliament "for better supplying the Town of Newcastle upon Tyne with fresh water." So was formed the first of the water companies, and depite all the wigheritation. despite all the vicissitudes re-organisation of the succeeding 300 years the survive—and flourish—today.

The water companies record. by common consent, has been good. In 1849, for example, when there were more than 70,000 deaths in England from cholera epidemics, it was noted that "Newcastle and Gateshead were plentifully supplied with water unpolluted with sewage . . . and these towns escaped with a very slight visitation of cholera."

More recently, while privati-sation was an active issue, atten-tion inevitably and rightly con-centrated on the 10 regional water authorities the Government intended to float. But the exercise once again underlined the remarkable resilience of the statutory water companies. Against all the odds, they were set to retain their independence.

panies were the ploneers of the water supply industry in England and Wales, in response

The current framework of rationalised the numerous bodies concerned with water and set up the 10 regional water authorities based on inte-grated river basins.

grated river basins.

The statutory water companies escaped the 1970s reorganisation largely because of their powerful political support. They have traditionally had peers and senior MPs as political allies and in positions of influence — Sir John Page. Conservative MP for Harrow West, has just taken over as president of the Water Companies' Association from Lord Elliott of Morpeth.

It was simply too difficult a

It was simply too difficult a hurdle for Mr Edward Heath's Tory Government to surmount. Far easier to leave them be. There are now 28 water companies, ranging from Newcastle and Sunderland in the north to Bournemouth and Folkestone in the pourty. bournemouth and Folkestone in the south. The compales obtain, purify and deliver water to 12m consumers, providing a quarter of the water needs in England and Wales. Customers include industrial, commercial and agricultural consumers as well

agricultural consumers as well as domestic users.

They vary in size from Essex, South Staffordshire and Bristol, each serving populations of more than 1m, to Hardepools covering 90 square kilometres and supplying a population of 92,000. Essex, the higgest, has an annual fullmover of over 530m.

ESOm.

They are also spread unevenly across the country, with 45 per cent of water in the Southern area supplied by companies, but none in the North West. Thames has seven water companies wholly or partly within its region.

Under the 1973 Act, the regional water authorities were obliged to discharge their water supply duties through companies in areas where the companies operated. But the companies are not involved with

companies are not involved with such functions as sewerage and land drainage, which remain the responsibility of the relevant authority.

They are unregistered companies, incorporated by individual Acts of Parliament, and with these greaters are the

individual Acts of Parliament, and with shares quoted on the Stock Exchange and held mainly by institutional investors. They operate under statute to provide an adequate supply of wholesome water to the public for a strictly-controlled financial return. Strict financial controls ensure that money is raised in the markets at lowest cost and the markets at lowest cost and that surpluses in any year are

 Amounts of share and loan Source works. • Issue of share capital by auction or tender.

• Rates of dividend on share

Rates of interest on loan. • Amounts that may be put to Amounts that may be put to reserve and contingency funds.

 Amounts of accumulated surpluses that may be carried on from year to year.

The amount of a company's capital is specified in its Act and in Parliamentary Orders. At present, to increase its capital a company has to make an application to the Department of the Environment and

and project its programme of works for a few years ahead. The department has the opportunity, therefore, to review the affairs of the company and to lay an Order for the amount requested or for a modified amount.

Under the arrangements

made between the companies and the water authorities, companies have to submit an annual programme showing any proand treatment works and trunk

to the growing industrialisation and urbanisation of the 18th century.

The current framework of they intend to fix the water

The statutory companies in their long history have proved remarkably resilient. They have retained their independence untouched by the recent privatisation proposals.

The perception, erroneous though it may be, that the companies are more efficient than the authorities has arisen than the authorities has arisen largely because over the last few years the companies have raised charges roughly in line with inflation, whereas the authorities have increased charges repeatedly in excess of inflation. But in many cases this was forced on the authorities by the financial pressures exerted by the Government.

What is certainly true is that many of the companies have been in the forefront of higher efficiency by cutting their workforce and by the introduction of new technology.

Newcastle and Gateshead, and South Staffordshire, two of the biggest, have both gained a reputation for innovation and

technology to spearhead an efficiency drive. Top priority is for an offensive on leakage reduction, the introduction of computerised digital mapping

The 28 companies are repre-sented by the Water Companies Association, with offices at West-minster. Its chairman is Mr Maurice Lowther, managing director of the Newcastle and Gaisshead Water Company, and director and secretary is Mr Michael Swallow.

The Government's White Paper on privatisation, pub-lished in January, rather skirted the issue of the water com-panies, adding a further com-plication to the privatisation

The essential message that they should stay as they were but should have the opportunity of converting to full public limited companies (plcs) if they so wished. There would also, of course, be the prospect

The companies were relieved that there were no plans for radical change in their status, but they were worried by a number of aspects of the White Paper.

First. there was the issue of austraction charges. At present the companies pay the authorities for the water they take. But it was feared that once the authorities were privatised their monopoly position could place the companies at a substantial disadvantage.

stantial disadvantage.
Second, there were worries
over the period for which the
plcs were likely to be granted
licences (25 years). Capital expenditure programmes are so
long in the industry there was
a fear that plans could be
shelved in the last few years
of a licence as it approached of a licence as it approached

renewal.

Third, the companies believed, like the authorities, that to impose the same price formula for the whole industry would be wrong. They favoured a flexible approach that would take into account regional and local factors.

At present, average annual At present, average annual bills per household vary greatly between companies. They range from £51 in East Surrey and £55 in Mid-Sussex to £24 in

Ess in Mid-Sussex to £24 in Hampshire and £27 in Portsmouth.

Finally, the companies were deeply hostile to the proposal to remove control over the maximum dividend payable to shareholders. At present the Environment Secretary sets the limit for the maximum dividend the companies can pay, and any

limit for the maximum dividend the companies can pay, and any surplus must be returned to the consumer through a reduction in charges.

The companies wanted this system to continue so that consumers rather than shareholders stood to gain from increased profitability and efficiency.

There will now be more time

Newcastle and Gateshead, and South Staffordshire, two of the biggest, have both gained a reputation for innovation and technical achievement, for example.

South Staffordshire Water Company, based at Waisall, is also one of the few to be involved in substantial overseas contracts. It is currently undertaking work in Malawi and Nigeria.

Lee Valley Water Company, based at Hatfield, Herts, is investing more than f4m in new technology to spearhead an efficiency.

There will now be more time for these and other issues to be discussed before privatisation again returns to the political agenda. The intention will again be to retain their treasured independence.

As Sir John Page, speaking in a Commons debate last month pointed out, the companies would perform the same sort of function in a privatised industry as Mercury does for British Telecom. If the first treasured industry as Mercury does for British Telecom. If the first treasured industry as Mercury does for British Telecom. If the Minister would have the got to the enormous trouble of the first treasured independence.

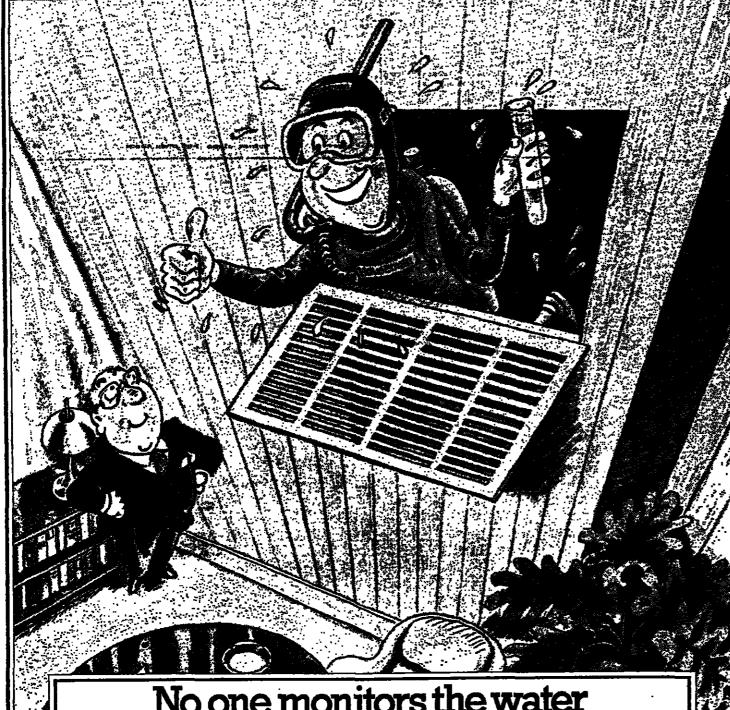
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As Sir John Page, speaking in a Commons debate last month pointed out. The common debate last mon

Richard Evans

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Consultants

# Far-flung work for UK engineers

A LEAKING dam near the dam sited north of Beijing. The providing up to \$80m. The Great Wall of China, a new dam, designed for irrigation, \$350m turnkey project, put \$320m (US\$636m) drainage was built close to the Great together by Biwater of Dorking, Great Wall of China, a new dam, designed for irrigation, £320m (US\$636m) drainage was built close to the Great scheme for the world's largest Wall of China in 1977 but has irrigated area in Sind. Pakistan. never stored water because it and a major sewerage project leaked seriously while the refor Istanbul and the Golden servoir behind it was filling Horn have a common link. They and the water had to be are currently being investigated, emptied.

consultancies were obtained in the face of intense competition from long-stablished firms in Europe, Japan and North America, and from the engineer-ing elite of newly-competing countries such as India, Talwan,

Brazil, the Philippines, Pakistan and Korea With work in the petrostates in decline, consultants are trawling the world for new opportunities and finding them

and can be easily operated and maintained. They are also keen to recruit consultants who are able to help set up efficient local institutions for water supply sanitation and irriga-

China holds potential for water sector consultants and the world Bank has already allocated funds to rural water supply, salinity control, drainage, flood protection and sewerage. British participation as being funded partly by the yet is rather small but British water International (BWI) which co-ordinates the water authorities' converses afforts has a under construction. An serious problems. Thames International engineers say that, despite the difference in scale, experience gained on the Thames is directly relevant to the Ganges. A team from India's Ministry of the Environment and the by Export Credits Guarantee Ganga River Authority is due to visit England in September to authorities overseas efforts has a mission to China in October

British consulting engineers.

Last year British engineers

Managed to obtain work with a centre and Sir M. MacDonald total capital value of more than £6bn. In nearly all cases the and Partners on a waste water plant for the district of Gaobeidian.

Binnie and Partners of London, in partnership with Binnie and Partners pty of Australia, funded by Australian assistance, has completed outline design for a major wastewater project for Shanghai which is awaiting World Bank appraisal. The \$500m project will provide a sea outfall which is the least-cost solution for is the least-cost solution for Shanghal's sewage disposal

mainly in aid-funded projects in developing countries financed by the World Bank, the Asian Development Bank, the Overseas Development Administration and the EEC.

These agencies are concentrating their investment efforts on projects which have low per capita costs, which make the best use of existing resources and can be easily merated and short of the sophorous where the comproperts in developing countries financed by the World Bank, the Overseas Development Administration and the EEC.

Disposal of wastewater at sea is something of a British speciality. A joint venture between Taylor and Binnie is working with Turkish consulting enginers UBM on a sewerage scheme for a British speciality. A joint venture between Taylor and Binnie is working with Turkish consulting enginers. UBM on a sewerage scheme for Istanbul which involves twin outfalls to carry effluent 1.5 km away from the shore to an area of the sophorous where the com-Bosphorous where the com-bined action of sunlight and strong tides will quickly break down the bacteria.

down the bacteria.

The Taylor Binnie joint venture is also responsible for design of the £2,000m Greater Cairo Wastewater Project which

Department backed loans. a mission to China in October
this year.

Among consultancies currently being pioneered in China,
ODA is financing investigation
by Howard Humphries of
Leatherhead into ways of reducing leaks from the Biankeng

Asia, consultancies may be
financies may be
financ

involves three UK consultants, Binnie & Partners, Watson Hawkesley and Sir M. Mac-Donald.

Thames Water International, the overseas consultancy arm of for the financing agencies to the Thames Water Authority, justify the f638m investment started work in March this year on an ODA-funded £200,000 However, a co-financing pack-

on an ODA-runded £200,000 technical advisory project for the river Ganges in India.

Working with the Central Ganga Authority, a newly-formed coordinating body for the Ganges river basin, the seven-strong Thames team is creating a computer model of the river. The authority has also asked for assistance in selecting suitable sewage treatment plants, and for advice on energy recovery (using methane generated by sewage treatment) and sewerage rehabilitation for the cities and towns along its

,500km length. The cities include Cawnpore, The cities include Cawnpore, Varanasi (which puts 60,000 cubic metres of raw sewage into the river each day) and Calcutta, India's largest city.

The Ganges, which rises in the Himalayas and is fed by melting snew, has exceptional cleaning and regenerative capacity. But rapid expansion of riverside cities (India's

of riverside cities (India's population is currently growing by a million people a month), large-scale industrialisation plus the 10,000 partially-cremated bodies and 60,000 animal car-casses which are found in the river each year are creating serious problems.

to visit England in September to In Asia, consultancies may be discuss the interim report and financed by the private sector Thames International hopes to

water-logging and salination of soils, but it has been difficult

age has now been put together with the Pakistan government, \$150m from the World Bank, \$100m from the Asian Development Bank and contribution from other agencies including \$40m from ODA. Sir M. Mac-Donald and Partners of Cam-bridge, in association with two Pakistan firms, National Engin-eering Services and Associated Consulting Engineers, has won

the consultancy contract.
The drainage scheme, known as the Left Bank Outfall Drain Project, will cover 1.4m acres and will take eight years to complete. A 120-mile long drain will be built to collect salty drainage water which will even-tually be released into the Arablan Sea.

The 900 man-months of consultancy work involves an equal three-way split between Mac-Donalds and the two national firms. This type of shared consultancy, with expatriates advis-ing and assisting the client with highly specialised design, is be-coming increasingly common in Asia where there are competent teams of local engineers.

In Indonesia, for example, the ratio of expatriates to Indonesians is likely to be about one to four.

Capital investments on the

scale of the Left Bank Outfall Drain are unusual these days and the bulk of water consult-ancy work is in training, leak control, rehabilitation of existing water supply and sewerage schemes, and operation and maintenance.

plain of the Indus river, expenditure to be deferred. Engineers have always known that the area, which produces wheat rice and cotton under consortium involvement from irrigation, would eventually Thames Water, BWI, Water need drainage to counteract Research Centre, Palmer Enwater-logging and salination of Vironmental, and the Water Industries Training Association is half-way through an import-ant leak detection and control programme for the Republic of Korea. Financed by the World Bank, the project is planned primarily to transfer technology, to the staff of water bureaux in 12 Korean cities.

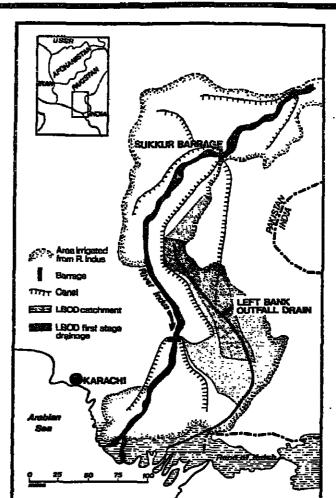
Measures to reduce water loss are also being implemented in the Kenyan capital, Nairobi. The Severn Trent Water Authority has been retained to work on management, billing and operations problems. However, water supply is run-

ning short and it is recognised that new sources are needed urgently. Howard Humphries, which has a long association with the Nairobi City Commission, has investigated new options and proposes that a new dam should be built at Thika. Where groundwater projects

Where groundwater projects are planned, success often depends on the skills of the hydrogeologists who chose sites for the boreholes. Hydrotechnica, a specialist UK consultancy in this field, uses integrated geophysical techniques and is currently locating and developing high yield boreholes in Nigeria. On a recent drought relief project in Zimbabwe, the firm claimed success rates of 90 claimed success rates of 90 per cent for production boreholes which provided 200,000 people with water at a cost of \$13 per head.

Low-cost projects which put high technology to good effect may be of great assistance to developing countries which have limited funds and urgent need for water. However, one of the main complaints made of the main complaints made against consultants by their clients in developing countries is that they introduce technologies which are inappropriate to the location. Consequently, projects are built and cannot be maintained, or equipment is introduced but cannot be used. The challenge for consultants in the late 1980s, the second half of the specially-designated International Drinking Water

International Drinking Water Supply and Sanitation Decade, is to devise affordable and sustainable schemes, to develop their own understanding of the needs of developing countries, and to share their knowledge.



# **Drainage** scheme package

The huge drainage scheme to help develop irrigation of the Indus flood plain in Pakistan will cost £636m.

The co-financing package, which involves the Pakistan government, the World Bank, Asian Development Bank and other agencies, will enable work to be carried out to reduce waterlogging and help the soil to improve.

The project involves building a 120-mile long drain to collect salty water and carry it to the Arabian Sea.

One of the difficulties when such schemes are projected is their cost in countries where funds may be limited and the simple need for good drinking water a greater priority.

### PROFILE: Maurice Lowther

MR MAURICE LOWTHER had no idea his term as chairman of the Water Companies' Association would be so

He became chairman of the association, which represents association, which represents
the 28 statutory water
companies in England and
Wales, two years ago when the
water industry looked set to
continue its quietly
effective background work
and the companies were little
known outside their local
areas

areas.
Then came the prospect of privatisation and Mr Lowther was thrust into the turmoil of the negotiations. The companies, anachronestic to some, were determined to to maintain their independent as they had done against the odds when the industry was reorganised in 1973. Governed by strict statutes laid down by Parliament, the

companies supply water through the water authorities in the areas where they operate. But they do not have any sewage functions. Annette Bingham Mr Lowther, managing director of the Newcastle



Maurice Lowther; thrust into negotiations.

and Gateshead Water Company, one of the largest, and his colleagues looked set to win their battle when privatisation The Government White Paper proposed leaving the com-panies alone, but gave them

the option of becoming public authorities.
It was regarded as a coup for the companies, which have always had strong political support from the Conservative

Party.
Mr Lowther, a consulting enginer specialising in pipe-

lines and dams, joined Newcastle and Gateshead in 1958, became deputy chief engineer and then managing director in 1971. He has been national president of the Institution of Water Engineers and Scientists and is a recipient of the international friendship medal awarded by the US water industry.

His hobbies at his home in Northumberland are bee-keeping and fishing. President of the Water Com-panies Association is Sir John Page, Conservative MP for Harrow West, who recently took over from Lord Elliott of Morpeth. Mr Michael Swallow is director

Richard Evans

### Technology

# Differing rates of development

methods and to investigate developments in micro-electronics and information technology.

Early in 1979, the Department of Industry commissioned Environmental Resources and Watson Hawksley to examine the potential for the exploitation of Instrumentation, Control and Automation (ICA) techniques in the management of the water industry.

Their findings, published in December 1979, suggested that

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### WATER INDUSTRY **EXAMINATION** QUESTION

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technology in instrumentation and control has developed at different rates among the various UK water authorities.

Privatisation and the resultant drive for greater efficiency and profitability has led the water industry to scrutinise closely its working methods and to investigate developments in micro

a market potential of \$40.50m be a joint partnership with manufacturers."

As it turns out, this was undertous this was undertous and its finding that it can work is one of the leading proposents in the application of new technology and office automation to the water industry. It has one of the most advanced integrated telecommunications to the storage capacity available to the storage capacity available to the industry, tying in telemetry systems with computers.

The group was chaired by Mr

puter data and digital PABXs. accurate portable recorder for operational information such as flow and pressure.

It was developed because other commercially available equipment was found to be inaccurate and unsatisfactory. It records variables such as pressures and replays this in graphical form at the authority's local offices.

"As a rule we do not believe in making things ourselves. We got the idea for a prototype, and we partnered with a manufacturer who improved the design. These types of ventures provide opportunities for the manufacturers in export mar-

manuacturers in export mar-kets," says Kenneth Roberts. One of the most significant outcomes of the ICA Steering Group was the establishment of four Evaluation and Demon-stration Facilities (EDFs), inspired by the realisation that even the most carefully conducted laboratory experiments can never reflect the problems of a live environment and the

of a live environment and the experience of work undertaken in the field.

Supported by Government grants, they comprise a sewage treatment facility at Thames Water's Witney Works, a water treatment facility at Yorkshire Water's Eccup Works, a supply and distribution facility at the Rickmansworth Water Company, and a river management pany, and a river management facility for Wessex Water at Avon and Dorset.

These EDFs are now managed by the Water Research Centre's ICA Steering Group, also chaired by Mr Roberts. "The manufacturers were luke-warm about EDFs to begin with. Now there are not enough places for them on the test beds," he claims.

"We have even been approached by some German manufacturers, but we are not letting them get on the test beds because they have been financed by British industry which should reap their benefits first."

The ICA Steering Group's work has not been lost on the water suthorities. Peter Thorpe, Regional Manager responsible for ICA development at Severn Trent Water Authority, says: "On the instrumentation side we have put quite a lot of effort into data collection but we are becoming increasingly in-terested in the control area." The authority is working closely with manufacturers on instrument development, and, in some cases, meets some of the speculative risk capital

ds, which may amount to

thousands of pounds.

"We are also looking at tele-One example of partnership metry on a wider front," adds with manufacturers is the Mr Thorpe, "In the past there Wessex 100 Logger, a highly has been a tendency to buy a accurate portable recorder for operational information such as and then to decide how best to

"Now we are thinking a little more carefully about precisely how we want it to operate and specify the equipment in a way that will allow us to obtain the best out of it. "We nave developed our own

philosophy of control which, in effect, pushes control to the outstations as much as possible. Instead of bringing all the data back to the centre you can use local intelligence to reduce the data traffic from the plant level to the control centre."

The authority's use of local

microcomputers and intelligent control systems allows it to concentrate its operational staff on areas which need attention. "In other words. we "In other words, we report more on an exception basis rather than on a regular routine reporting basis," Mr Thorpe

adds.

The water industry is licensed to run its own communications networks. This is an area in which Mr Thorpe is particularly interested in as is particularly interested in as chairman for the Water Authori-ties Association's national committee on telecommunications. small advisory group which advises the industry and liaises with the Department of Trade and Industry. A number of water authorities have developed their own

digital communications net-works, instead of buying in services from carriers such as Mercury or British Telecom. And in some instances, they are providing their own radio links The industry uses mobile radio and telemetry scanning for monitoring remote plants, pumping stations and monitoring pressures in distribution systems. There are facilities available in remote locations so that if equipment, such as a pump, overheats, it will automatically trigger an alert for a fitter to attend to the problem.

The industry, says Mr Thorpe, uses a number of 1.5 gigaherz radio links, each of which can provide around 36 speech channels-"we can cater for our own internal telephone traffic and also provide communications for our mainframe computers to talk to each other."

"However, we also buy in some services from BT and this gives us a degree of security should we lose our own system or one of the other phones."

Boris Sedacca

# Total capability

The natural cycle of water is a relatively simple process. The sun evaporates water from the oceans, producing clouds. The clouds condense, returning the water to Earth as rain. The rain collects in streams and rivers and flows back into the oceans.

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If the Government's privatisation proposals are resurrected, a number of issues must be resolved before they can be implemented. Mark Bentley and George Yarrow report.

# Policies the heart of regulation

A PRE-OCCUPATION with the sity, a greater part of the mechanics of flotation, if burden of consumer protection privatisation does eventually would be borne by the regulation and by unhappen, can easily distract tors. Moreover, the environmental issues raised by water most crucial regulatory issues. Privatisation introduce a layer of complexity that has been of complexity that has been opened. As a consequence of system to be used in setting prices incentive it also to be used in setting prices beyond the initial indexation periods. As a consequence of Yet the policy decisions on regulation that will have to be made could have significant implications for the industry's rformance over many years

The general aim of regulation is to create a system of incentives for the water companies that would bring private and public interests into better alignment since, without regulation, profit-seeking behaviour could be expected to lead to abuse of monopoly power and augnment since, without regula-tion, profit-seeking behaviour could be expected to lead to abuse of monopoly power and diminished environmental pro-by the producers.

With respect to the monopoly problem, for example, the goal is to channel the energies of management into increasing profits by improving internal efficiency rather than by raising prices to levels in excess of unit prices to levels in excess of unit

adopted for telecommunications and gas provide the obvious starting point for thinking about options for the water Industry. There are, however, major differences in market and organisational structures among the three industries and

absent until now.
On the other hand, the regional structure of the water authorities provides opportuni-ties for effective regulation that were less readily attainable in telecommunications and gas,

Partly as a result of conflicts of interest among the various authorities, the bargaining strength of management in the

by the producers.

Equally significantly, the ability to construct long-run price controls based on compercion performance data parative performance data opens up a number of possibil-ties for introducing more effecties for introducing more enec-tive regulatory incentives.

One of the principal dangers of privatising the water authori-ties is that it could lead to a deficient level of investment.

The industry is capital intensity

and its principal assets are very durable. Shareholders' returns are therefore highly sensitive to regulatory policy decisions over a relatively long time span and, while regulation can be ex-

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periods. As a consequence of these various factors there is a strong possibility that the private cost of capital could be

excessively high. The traditional method of attempting to induce adequate investment in capital-intensive, private monopolies is via ex-plicit cost of service regulation of the US variety.

This can be viewed as an attempt credibly to guarantee shareholders' returns by fixing prices on a basis that can be presented as fair and reasonable to both investors and consumers, and that is not therefore likely to be radically challenged by one of the interested parties. In other words, by keeping prices close to unit costs (including capital costs) the regulatory bargain is likely to be relatively durable.

The chief drawback of cost of service regulation is that it tends to provide poor incentives for internal efficiency if cost reductions are passed quickly on to customers and thereby make little contribution to profitability.

among the three industries and simple adherence to the earlier models is neither feasible nor desirable.

The prospects for increasing product market competition are much bleaker in the water industry than in telecommunications and (to a lesser extent) than in gas. Hence, of neces-

regulatory lag tends to increase a durable basis for the reguincentives for internal efficiency. it also tends to undermine the credibility of the regulatory bargain. Wide deviations of other for a change in the pricing formula.

Imagine, for example, a situation in which water companies' rates of return were rising to levels significantly greater than those in other UK industries. In these circumstances it is hardly would be satisfied with the argu-ment that regulators should remain passive until the end of the indexation period so as not to threaten efficiency incentives.

Similarly, although it is improbable that there would be any dramatic failures of supply if prices fell significantly below long run unit costs—since, given the capital intensity of the industry, operating profits would be positive in all but the direst of circumstances—cut-backs in investment probacks in investment pro-grammes and chiselling on service standards could be anti-

The regional structure of the water industry offers a potential escape route from this dilemma, but adoption of that route would require a bolder and more far-sighted approach to regulatory policy than has yet been exhibited by the government. Put simply, water companies could be allowed to

EAST WORCESTERSHIRE

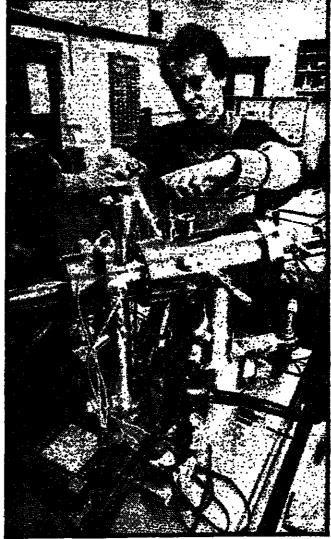
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ensure that industry revenues Unfortunately, while a long track industry costs (providing latory bargain and lowering the cost of capital) and that the rates of return of individual companies vary with their relaprices from costs will bring tive performance (promoting pressures from one side or the rivalry and maintaining incentives for internal efficiency).

This type of enhanced cost of service regulation is, of course, far from being a panacea for all far from being a panacea for an the regulatory problems raised by privatisation of the water industry. There remain the issues of maintaining an equitable balance of charges for metered and unmetered ser-vices; separating regulated and unregulated activities; deter-mining appropriate levels of service standards; and manag-ing a system in which water companies are both regulated and act as regulatory agents with respect to abstractions and

Moreover, it is clear that the present structure of the indus-try may hinder the develop-ment of efficient, privatement or emcient, private-ownership solutions to a num-ber of these problems. For example, the existence of inte-grated, privately-owned water companies could make it difficult to move to a system of economic pricing for abstrac-tions and discharges.

Nevertheless, if privatisation eventually goes through, there are opportunities for improving on what has gone before and for establishing a regulatory framework that has some chance of long-term survival.



Analysing organic trace components in water and related samples. The importance of clean water is fundamental in developing countries where supplies often must be provided from scratch to help reduce the incidence of disease



Irrigating fields at El Mahsama in Egypt's eastern desert region

# Third World supplies fall behind

THE UN designated the 1980s as the International Drinking Water Supply and Samitation Decade and promised to help developing countries to provide and 1,600m had no sanitation safe water and adequate water disposal for their populations of the Decade, increased supply in 1000 countries. safe water and adequate waste disposal for their populations

The cost, estimated at about \$10,000m a year, although daunting, did not initially seem

beyond the reach of concerted international effort. The need was clearly compelling. The World Health Organisa-tion estimated in 1977 that 30,000 people were dying each day because they lacked clean water and adequate sanitation. Half the illness in the world could be attributed to inadequate water supply and sanitation. tion and 80 per cent of hospital beds were occupied by people with water-related disease. The Decade was devised to right this

is not matching population growth and investment is not matching expectation.

In urban areas, 672m people out of a total population of 870m now have clean water, compared with 509m out of

Populations in rural areas where most people still live, have risen less rapidly and figures of 581m with clean water in a total population of 1.610m show some improven on the 1980 figures of 472m in

Sanitation is just keeping pace with population growth in cities (with access for 518m

compared with 386m in 1980). In rural areas however, sanitation shows only a marginal increase, from 207m to 255m.

The hope now is that the 150 countries which have drawn up Decade plans will start to meet the incremental increase in population with improved projects which make the best use

population with improved projects which make the best use of limited funds.

Mr G. Arthur Brown, chairman of the steering committee for the Decade and associate administrator of the UN devalopment programme says: administrator of the UN development programme says:
"An enormous task still lies ahead... but wherever you go in the Third World you will find Decade-generated activities.
"One of the United Nations aims is increased awareness of the water sector. Water is not getting its appropriate share of the budget."

**Annette Bingham** 

# Focus health

THE PARADOXICAL problems of water shortage and flooding, and the health benefits of water supply and the risk of water-supply and the risk of water-related disease, in the develop-ing countries, were important themes at the World Water 36 conference, in London, earlier

The three-day conference, organised by the Institution of Civil Engineers, looked also at the technical questions involved in treatment and disposal of industrial waste, and the operation and maintenance of water

distribution systems.
The conference was opened by The conference was opened by Princess Anne, who spoke from direct experience in her work as President of the Save the Children Fund, "Teaching people the importance of clean water is one thing; having clean water available in quite mother," she said.

She stressed the fundamental

She stressed the fundamental importance of clean water to human health and outlined some of the problems and di-lemmas facing people and insti-tutions who are attempting to hring water supplies to people in developing countries. The pros and coss of large

dams were "difficult to balance because although they were sometimes needed for city sup-plies and for power, they hold back valuable silt and may become useless as the silt accumulates, Princess Anne said.

She appreciated the dilemma facing villagers whose only fuel is firewood. They were taught that they must boil their drink ing water, but the destruction of trees added to the problems of deforestation and erosion.

The importance of irrigation and drainage in the production of food crops and staple fibres such as cotton was addresse by Mr Guy le Moigne, the World Bank's irrigation advisor, said the \$1,300m allocated for irrigation in the fiscal year ending on June 30 was a record He forecast, however, that the increase would not be maintained and that 1986-87 spending would revert to about \$1,000m. Increased production of food

under irrigation promotes health by reducing the risk of famine. The corollary is that irrigation water provides a ding ground for breeding ground for mosquitoes which spread malaria, and for snails which incubate schistoso-

"Dr A. A. El Gaddal, manager of the Blue Nile Health Project in Sudan emphasised: "When irrigation projects are being planned, the welfare of the priority.

The need for a multi-discipli-nary approach was underlined by Dr R. Bahal, of the World Health Organisation's division of vector biology and control who said that two thirds of the world's population was at risk from malaria, and designers and medical people should work to getter to reduce breeding grounds for disease.

Prof David Bradley, Director

of the Ross Institute of Tropical Hygiene and chairman of the session on health, suggested that engineers should consider conengineers should consider con-sulting medical specialists just as they call in hydrogeologists and other professionals. The lack of awareness among

engineers of the health prob-lems inherent in water projects was deplored by Prof M. J. Hamlin of Birmingham Univer-

A.B.

### PROFILE: Roy Watts

MANY BELIEVE that without Roy Watts, there would be no plan to privatise the water industry. Since he took over the ship of Thames in enarmansing or Thames in 1983, he has had one overriding ambition—to turn his authority into one of the largest quoted companies in Britain, with himself at the

He gives regular press conferences in Thames's London offices in Smith Square, across the road from Conservative Central Office and Transport House, at which the arguments for privatisation are continually hammered

Watts also bosts occasi ral gourmet lunches for the Great and the Good at the authority's magnificent premises in Gibbons. Here, the drive towards privatisation is subtly

Watts is quite clear why Thames should go private: ne believes that it makes business sense. It is certainly true that Thames, of all the 10 authorities in England and Wales, is well placed to transfer to private

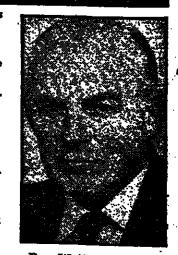
It has little debt to speak of, a basically sound infrastructure and a captive clientele that is the most prosperous in Britain, Much large-scale investment is already under way, and the advent of the revolutionary Lendon Ring Main will give the capital perhaps the most efficient regional water system in the world. Thames would, almost

certainly, prove a good Yet, there is something

more. Watte was for many years the number two at British Airways and would like to Airways and would like to have been given complete charge. Lord King got the job instead, and with it the chance to privatise the national carrier. Watts left not long afterwards to take over Thanes. Since then he has been an energetic and successful businessman, holding down directorships in two other companies while leading the good fight in the water sector against government imposed

against government imposed intreases in consumer charges. If he succeeds in his goal to force Thames out of the state arens, it will be a considerable personal achievement. The Government wants to privatise the industry; Roy Watts will not settle for anything less.

Walter Ellis



Roy Watts: hammers home the arguments

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### SECTION II - COMPANIES AND MARKETS

# FINANCIAL TIMES

Monday July 28 1986



INTERNATIONAL BONDS

# Floating rate sector bubbles with \$2.25bn of issues

MANY FLOATING rate note trad- correct the FRN market's imbalers are breathing a sigh of relief that their jobs are safe for another year, quipped one syndicate manager on Friday. The market absorbed \$2.25bn of Eurodollar floating rate notes last week, some on very ag-gressive terms, with a good deal of aplomb, writes Alexander Nicoll in

Among other less fundamental effects of the week's FRN flood will be on the issuing houses' league table. Despite quibbles about the terms of specific issues, hats were off to Credit Suisse First Boston. The two FRNs brought by Salomon Brothers, including an exceptionally tightly priced deal for New Zea-

land, were also doing well. It is all a far cry from the dumping of paper and slump in issuing cially as bargain buys. This was unactivity - coupled with complaints derlined by the lacklustre state of about poor secondary market liquidity - seen earlier in the year. barely responded to the most recent Then, after a massive \$47bn of is- cut in US discount rate, with wide sues in 1985, the FRN market was left standing as investors switched

ance. Investors are back for several reasons, and the increased focus on trading for capital gain by some of them is boosting liquidity. Borrow-ers, so far, have not been arriving in terrifying numbers.

Even after the past two weeks' splurge, issues this year still total only \$16.3bn, well below last year's pace. And issues have generally met demand for specific types of borrowers, avoiding an over abundance of unwelcome names and too many gimmicks

The predominance of the straight sector of the previous few months left FRNs undervalued in the secondary market, with bank names particularly some regional and thrift institution issues - seen espethe fixed-rate market, which has spreads over Treasuries persisting. Brave issuers who have attempted their attention to the fixed-rate sec-straight deals over the past two weeks have had some unpleasant

banks, are by far the largest buyers of FRNs, perhaps accounting for 60 to 70 per cent of the market. They are naturally keen to buy paper with spreads above Libor (London interbank offered rate) but other factors are also influencing them

and perhaps creating a broader di-

FRNs are increasingly looked on as money market instruments, vying for investors' attention with such alternatives as certificates of deposit and Eurocommercial paper. London interbank deposit (Libid) rates could thus be becoming a less important benchmark and vields on competing instruments could play a proportionately larger role in inves-

That means borrowers such as New Zealand can get away with indeed, trade above par - an issue priced to yield below Libid. The short five-year issue for Chase Manhattan, which came at Limean, was also viewed in this way.

tors decisions

The progressive fall in interest rates has also made Japanese in- although they are no doubt still se- as much as a half-point on the

mostly their portfolio for capital gain. of the thrift industry are overcome t buyers. Apart from aiding market liquidity, by the collateral. Money centre ig for 60 this also helps borrowers to set names have been bought despite

There have also been a number of issues satisfying investors wanting a margin over Libor. Of the three Canadian bank issues offering 1/2 over Libor, two fared well and the third did not do badly. Investors liked the yield and were apparently not over concerned by the possibility that the coupons could be cut if

Japanese investors also liked the collateralised issues from US savings and loan institutions, which are rated triple-A. Some investors are restricted to triple-A borrowers, so these deals coming above Libor are welcome – although the margin has narrowed progessively to just 5 basis points on the City Federal and East River Savings Bank's success-

In buying US bank issues, investors seem to have overcome perennial doubts about US bank names.

the recent flutter over Bank of America's recent poor results, and the news that Mexico is seeking a new \$12bn loan package of which half is

expected from banks. Third World debt is not seen as likely to cause systemic shock. A West German bank, Commerzbank, got the best response of the week but Citicorp's was seen as just too ungenerously priced for such a fre-

quent borrower On the supply side, demand for funding through FRNs is not yet excessive, especially as many borrowers also have access to floating rate funds elsewhere in the Euromarkets. Sovereigns have only small

Despite some indigestion of new issues last week, most syndicate

Elsewhere, there was demand in isolated sectors. Swiss bond prices vestors more attimed to trading lective. Concerns about the health week, but the West German, French

and Ecu markets were dull. Friday saw the latest issue of warrants in Morgan Bank Nederland into Dutch state bonds.

Other niches targeted during the week included specialised demand for "bull-bear" bonds linked to stock market performances, including a DM 200m package from Deutsche Bank with redemption amounts depending on the FAZ index.

| Primer | y Market   |         |          |          |
|--------|------------|---------|----------|----------|
|        | Straights  | Conf    | FRN      | Othe     |
| us\$   | 1,708.8    | 152.8   | 3,845.8  | 1,845    |
| Prov   | 2,182.4    | 43.5    | 887.1    | 2,705.   |
| Other  | 2,513.5    | 189.8   | 1,064.0  | 132      |
| Prev   | 1,284.6    | _       | 1,166.8  | 109.     |
| Secon  | đery Marko | ŧ       |          |          |
| ust    | 28,187.2   | 1,074.8 | 14,752.1 | 5,648.   |
| Prev   | 21,418.3   | 1,170.2 | 13,097.1 | 6,814,4  |
| Other  | 2,606.6    | 105.9   | 2,112,3  | 2,742    |
| Prov   | 10,310.2   | 109.1   | 1,535.9  | 2,883.   |
|        | Cedel      | Euro    | clear    | Total    |
|        | 44 455     | 90.4    | 69.1     | 52,216,3 |
| USŠ    | 13,047.1   | 30.1    |          |          |

# Texaco and Shell Oil quarterly earnings hit by falling prices

BY OUR NEW YORK STAFF

TEXACO, the US oil group, and from \$337m, while revenues de-

Net income at Texaco amounted \$9.85bn to \$185m, or 77 cents a share, down tumbled from \$11.7bn to \$7.9bn.

share, compared with \$625m, or to remain at depressed levels. \$2.56 a share in 1985, as sales fell to ● Pennzoil, the Texas oil group \$17.5bn from \$23.7bn.

said that the increase in the group's Getty Oil, also suffered a secondreturns from its refining, marketing quarter setback. Net income fell to and supply activities "was not sub- \$25.2m, or 51 cents a share, from and supply activities "was not substantial enough to compensate for \$52.6m, or \$1.12 in 1985. Sales fell to the depressed worldwide producing \$480m from \$565m, and for the first

At Shell, net income fell to \$219m from \$1.1bn.

Shell Oil, the American subsidiary clined to \$4.16bn from \$5.10bn in of Europe's Royal Dutch/Shell, both recorded significant second-quarter months of the year, earnings earnings reverses, reflecting the slump in crude oil prices. while sales slid to \$8.33bn from

Mr John Bookout, chairman, said from \$305m, or \$1.28 a share, in the that the current volatility of crude same period last year. Revenues oil and product prices made the near-term earnings outlook uncer-In the first six months of the tain but that oil and gas exploration year, Texaco earned \$513m, or \$2.14 and production profits were likely

which is suing Texaco for \$11bn in a Mr John McKinley, chairman, case related to Texaco's purchase of six months were down to \$991ra

# Southern Europeans take advantage of favourable climate

isting borrowings, continues to basis points for the next two. keep the Eurocredit and Euronote market ticking over as the holiday period gets under way, writes Peter Montagnon in London.

some sectors of the banking comtions, deals for Italian borrowers are cropping up in what bankers say is an especially haphazard way. a market becoming so heavily tilted for Isveimer, the regional develop- the long downward slide of loan ment authority, were in the market margins may now be bottoming out. with a third botly rumoured.

it carrying a margin of 5 basis without exposing the terms they repoints and led by First Chicago, the ceive to the public. other a deal for DM 70m which could be increased and is led by oretically have the opportunity of a special case as they have been per cent margin, the same as that guaranteeing the deal - a rare ap-

has been growing this year. As the market for publicly announced loan Despite signs of resistance in facilities contracts, more banks have become involved in smaller munity, notably Japanese institu- bilateral and discreet club deals of which these are just two.

Such operations are inevitable in Last week, for example, two deals in favour of borrowers, but where one is an Ecu 60m five-year cred-raising money at favourable rates

The banks that go into them the-

A PLETHORA of smaller deals for Chemical Bank International. This selling the assets on in the seconsouthern European borrowers, carries interest at 6% basis points dary market, although many said many of them renegotiations of ex- for the first five years, rising to 10 that this was unlikely to be the case with five-year Isveimer paper at a Bankers say the Isveimer deals margin of 5 basis points. Isveimer represent the tip of an iceberg that would be unlikely to attract such a low margin even on very short-term

paper, they said. This flattening of margin curve with less and less distinction between short-term and long-term rates is one reason why some bankers argue that loan margins have now reached their lows.

But that is not to say that terms could quickly start to rise in favour of lenders. There is still too much liquidity around and too much competition from other market sectors such as floating rate notes and

Sweden would only borrow again, it od will be one year shorter at five could easily obtain a jumbo loan at years.

just % over Libor, bankers say.

Other new deals in southern Enand Ecu 41m. The maturity on the on Friday the new margin would start at 20 basis points for the next two years and rise to 25 basis points

Chase Manhattan has disclosed the terms on its \$100m, eight-year ommercial paper. credit for Public Power Corporation mining company belonging to the Also, Italian borrowers represent of Greece. The deal is to carry a % provincial government which is

very active while other borrowers on the recent \$370m credit for the stayed away from the market. If Bank of Greece, but the grace peri-

Among loans already in the market, the \$300m facility for Credit rope include a renegotiation of a Foncier has met a positive receploan arranged in 1984 for Electricition with about \$250m raised by last dade de Portugal comprising £35m Friday. Most of this money comes, however, from French and Japadeal is being left unchanged at 1991 nese banks, which may have to be but the margin will be cut from its scaled back under French Treasury present level of % per cent. National rules. Interest from banks in other Westminster as lead manager said countries was more moderate, although there is demand for the transaction, expecially from US

banks. Nova Scotia Resources has launched a \$125m Europote facility through CIBC. The borrower is the

pearance of a Canadian province in

The facility is accompanied by a \$60m underwritten facility on which sales of notes will carry a maximum margin of % per cent. The basic facility fee is 8 basis points although the entire underwritten portion can be held in reserve for a lower fee of 4 points.

Hospital Corporation of America has launched a \$200m Eurocommercial paper programme with Chase Manhattan, Salomon Brothers and Swiss Bank Corporation as lealers. Morgan Guaranty and CSFB have been appointed dealers in a \$150m commercial paper programme for Carrefour, the French retailer, which launched a \$150m loan facility through CSFB-earlier

### United Asian Bank to raise capital after loss

BY WONG SULONG IN KUALA LUMPUR

UNITED ASIAN Bank is to raise 152m ringgit (\$58m) through a two-for-one rights issue to repay a loan Malaysian bank in 1985, which was ed in December 1985.

man and a leading shareholder. said the loan was owed to Bank Bumiputra and Bumiputra Merchant

UAB is proposing to issue the rights at one ringgit par per share. The bank's paid up capital would be increased to 238.7m ringgit after the issue while its net tangible assets

The 90m ringgit loss incurred by of a similar amount and to restore a bad year for the banking industry its capital adequacy ratios after re- because of the economic recession porting a massive after tax loss of and the need to make heavy provinearly 90m ringgit for the year end- sions for bad debts arising from compliance with the tough direc-In the issue document, Tan Sri tives on non-performing banks issu-Kishu Jethanand, UAB vice chaired by the central bank.

In 1984 UAB also suffered an after-tax loss of 21m ringgit. Tan Sri Kishu said the capital raised from the rights issue would help recovery although the bank was still expected to incur a loss this year.

All commercial banks have to maintain a minimum capital ratio would increase from 17 to 72 cents of 4 per cent of total authorised assets as defined by the central bank.

**NEW ISSUE** 

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JUNE 1986



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Banca Nazionale del Lavoro

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Kuwait Foreign Trading Contracting & Investment Co. (S.A.K.) Lazard Freres et Cle Leu Securities Merrill Lynch Capital Markets Mitsui Finance International Samuel Montagu & Co. The Nikko Securities Co., (Europe) Ltd. Pictet International Ltd Pierson, Heldring & Pierson N.V. N. M. Rothschild & Sons Salomon Brothers International Sanwa International Shearson Lehman Brothers International Soditic Jersey Société Générale Sumitomo Finance International

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# RJR Nabisco, Inc.

**Dual Coupon Dual Currency Bonds Due 2001** U.S. \$120,000,000

Interest Payable in SFr. at 5%% on the Issue Amount of SFr. 200,000,000 until 1998 and at 10% thereafter on U.S. \$120,000,000 until 2001

Swiss Bank Corporation Swiss Volksbank

**Credit Suisse** 

Bank Leu Ltd

Private Bank and Trust Company

**Union Bank of Switzerland** 

A. Sarasin & Cie

Banca del Gottardo

Banque Bruxelles Lambert (Suisse) S.A. The Royal Bank of Canada (Suisse)

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Banca della Svizzera Italiana HandelsBank N.W. United Overseas Bank

June 1986

RJR Nabisco

New Issue

# RJR Nabisco, Inc.

Swiss Franc Currency and Interest Exchange Agreement



Swiss Bank Corporation International Limited

**US MONEY AND CREDIT** 

# Volcker warns but short-term view prevails

A SIZEABLE crowd of bond market analysts and economists stufied themselves like sardines into a muggy room in Washington last week to listen to what Mr Paul Volcker, chairman of the Federal Reserve Board, had to say about the economy and monetary policy. But the market meandered on as though it had not heard a

Prices over the week slipped back for five straight days in succession, pushing the yield on the 30-year Treasury long bond from 7.18 per cent at the beginning of the week to 7.42 how "AA" Long to per cent at the end, its highest point for a month. Short-term rates moved up more slowly, but they rose steadily nonethebut they rose steadily nonetheless, leaving the three-month Treasury bill rate standing at 5.81 per cent by Friday against 5.71 per cent at the end of the

previous week.
Yet there was nothing in Mr
Volcker's testimony to indicate that the Fed had any plans to reverse its present accommodative monetary policy, nor that the central bank held any great that the economy would suddenly surge ahead and impose fresh strains on the financial markets. Indeed, the

| US MONEY MAR               | KET RA                                       | (X            | ()    |               |              |
|----------------------------|--|---------------|-------|---------------|--------------|
|                            | Last<br>Friday                               | 1 week<br>ago | 4 wks | —12-m<br>High | onth-<br>Low |
| Fed Funds (weekly sweege)  | 6.37<br>5.81<br>5.89<br>6.33<br>6.25<br>6.20 | 5.46          | 6.87  | 9.91          | 6.37         |
| Three-month Treasury bills | 5.81   | 5.70          | 6.00  | 7.40          | 5.7          |
| Siz-month Treesury bills   | 5.89   | 5.77          | 6,99  | 7.48          | 6.76<br>6.30 |
| Three-month prime CDs      | 8.33   | 5,32          | 6.63  | 8.10          | 6.3          |
| 30-day Commercial Paper    | 6.25   | 6,30          | 6.76  | 8.05          | 6.2          |
| 90-day Commercial Paper    | 8,20   | 8.25          | 4.80  | 3.00          | 8.20         |

main drift of the chairman's and farming sectors and the evidence pointed in the other hard-pressed banks which serve direction. downward pressure on interest rates. He gave the impression that the central bank felt that there would be no compelling necessity for some time to raise rates either to defend the dol-lar or to protect against renewed

But while all these comments

of lower rates over the longer term, the market was busy responding to shorter-term conwas the Treasury refunding prowas the Treasury retunding pro-gramme. After doubts whether the refunding could take place at all because of procedural wrangles in the Senate, a Government official said on Tues-day that the department would be able to start the three-day auctions on August 5, adding that details would be given next

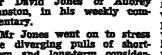
Estimates are that the Treasury will be calling for between \$28bn and \$30bn — enough to give the market jitters at the moment, especially with fears that the Japanese may be less willing participants than in the past. The second factor was a sud-

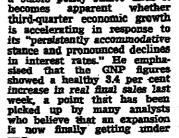
The second factor was a sud-den and unexpected reversal in the direction of the economic statistics published during the week. For some time most of the figures have pointed to a continuing sluggishness in the economy. But the statistics on durable goods order in June durable goods orders in June showed that they advanced by a solid 2.1 per cent in June, fol-lowing a down ward revised 1.1 tended to point in the direction per cent decline in May.

In the wake of these figures, the Commerce Department's estimates of weak Gross National Product growth in the was virtually ignored as traders looked to the upward first quarter revision — restated at 3.8 per cent against the original 2.9 per cent estimate and the revised estimate of stronger 1985 growth to 2.7 per cent from 2.2 per cent. These unexpected upward revisions threw the market off balance.

"The prevailing market view seemed to be that hints of stronger real GNP from the sluggish second quarter pace would tend to forestall Federal Reserve consideration of a further discount rate cut," said Mr David Jones of Aubrey Lanston, in his weekly com-

Mr Jones went on to stress the diverging pulls of short-term and long-term consider-

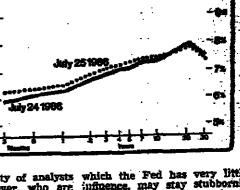




ations at present. His view is that the Fed will want to hold at present, however, who are willing to take exactly the a stable policy stance until it

the economy.

Like Mr Volcker, many of in step.
these specialists believe that
the huge US trade deficit, over



Treasury Yields

There are plenty of analysts which the Fed has very little infinence, may stay stubbornly high and exercise a continued t willing to take exactly the opposite position, arguing that opposite position, arguing that the economy is drifting into the doldrums in the second half of the year. Forecasts of the year. Forecasts of wirtually zero growth are not hard to come by on Wall Street these days, and some economists expect that this week's unemployment figures will remarks last week indicated the difficulties he at least expectation of the economy. earnestness of Mr Volcker's remarks last week indicated the difficulties he at least expecta-in keeping the US and its allies

Terry Dodsworth

### **UK GILTS**

# The Bank provides an index-linked enigma

Mr Paul Volcker, chairman of market.

Mr Paul Volcker, chairman of market.

Investors have already taken will be continued.

Investors have already taken will be continued.

While it stressed to employees at the start of last week, yet out £100m of 21 per cent Treatit was the UK gilts market that made the running. Mr Volcker's testimony to the Senate bank-tranche is a sizeable chunk for the Senate bank-tranche is a sizeable ing committee prompted some analysts to warn that gilt yields would move swiftly back into double figures. In the event, there was enough room for interpretation to bring the FT Actuaries 25-year high coupon yield down to 9.52 per cent and narrow the spread over the US long bond by 30 to 210 basis points.

On Friday the Bank of England demonstrated that Mr Voicker is not the only central banker who knows how to frame a good riddle. The Bank offered its own enigms with the issue of £400m of index-linked

tranche is a sizeable chunk for the £10bn index-linked sector. the £10bn index-linked sector. It will be issued by tender, closing date July 30, with £40 paid immediately and the remainder due on September 8. No minimum tender price is set. The fully-paid 2016 index-linked stock closed on Friday at 96‡, yielding 3.41 per cent real at 5 per cent inflation.

The Bank's statement immediately started the market guessing which large pension fund has inflation-linked kabilities it wishes to match 30 years

It will not have escaped the observer that British Gas has, issue of ratiom of index-linked stock to meet demand from a specific investor.

It is most irregular for the Bank to provide explanations of why it is issuing a particular stock. While the explanation itself was clear enough, the fact of its provision was enough to description observer that British Gas has, during its years as a state corporation with the Government standing behind it, been in the habit of increasing its pension payments in line with the cost of the market. Had the authorities simply tossed out another £400m of stock, with probably all £800m of 8½ per

While it stressed to employees that index-linking of pension payments has not been and will not be a hard and fast guarantee, British Gas is incorporating existing practices into the pension scheme rules, thus formalising the custom of cost of living increases.

The 2016 stock is not the very longest index-linked gilt available—that distinction belongs to II. 24 per cent 2020. Even with the 2020, however, a woman retiring at the usual age

woman retiring at the usual age of 60 has only to live to 94 to throw her pension scheme's asset mix out of kilter. Pension fund managers may soon be banging on the Bank of England's door for a longer

The Bank's purpose in explaining the new issue was at least partially fulfilled, for the

cent Treasury 2007 still on their hands and standing & of a point expensive to the market, the inference might have been that a quiet note of desperation was creeping into their funding

creeping into their funding programme.

The explanation that a single investor wanted a substantial portion of the new stock, and the fact that the sec 1d payment is spread all the way into September, served to suppress that anxiety, although there are still a number of analysts in the City worried over the likely level of funding in the rest of the year. the year. This week the market reverts

to contemplating the more usual juzzle of whether the Japanese and American buying that sustained last week's rally will persist, and of whether the will persist, and of whether the pause in economic growth shows any signs of ending.

The Confederation of British Industry's quarterly industrial trends survey on Tuesday, the only major UK economic statistic of the week, may offer some clues on this point.

George Graham

### FT/AIBD INTERNATION AL BOND SERVICE

US DOLLAR
STRAIGHTS
AHFC O/6 Fig 111, 94 100
AIDC 11 89 75
Accan Australia 87, 89 25
Amer Saving 12, 89 100
Aslan Dev 8k 111, 93 100
Australia 112, 90 100
Australia 113, 90 100
Australia 113, 90 100
Australia 113, 90 100
Australia 113, 91 100
Australia 113, 91 100
Benk of Tokyo 122, 82 100
Benk of Tokyo 123, 81 100
Benk of Tokyo 123, 85 100
Benk of Tokyo 123, 85 100
Benk of Tokyo 133, 85 150
Br Col Hydro 123, 13 250
Br Col Hydro 123, 13 250
Br Col Hydro 123, 13 250
Br Col Hydro 133, 85 150
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Caleso Net En 113, 95 125
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Denmark 13, 91 100
Denmark 14, 91 100
Denmark 15, 92 100
Denmark 17, 90 100 

pd Price week Cap
1001 - 0% 74
852 - 0% 74
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U.S. \$100,000,000

**Farm Credit Corporation** (An agent of Her Majesty in right of Canada)



Société du crédit agricole (Mandataire de Sa Majesté du chef du Canada)

74% Notes Due 10th June, 1996

MOBGAN GUARANTY LTD

GOLDMAN SACHS INTERNATIONAL CORP.

Morgan Stanley International WOOD GUNDY INC.

SWISS BANK CORPORATION INTERNATIONAL LIMITED

BANQUE BRUXELLES LAMBERT S.A.

COMMERZBANK AKTIENGESELLSCRAFT

CRÉDIT COMMERCIAL DE FRANCE

BANK OF TOKYO INTERNATIONAL LIMITED

COUNTY BANK LIMITED

McLeod Young Weir International Limited

DOMINION SECURITIES PITFIELD LIMITED

Nomura International Limited

ORION ROYAL BANK LIMITED

TORONTO DOMINION INTERNATIONAL LIMITED

YASUDA TRUST EUROPE LIMPTED

### INTERNATIONAL CAPITAL MARKETS AND COMPANIES

### Return to profit at **Texas Instruments**

TEXAS Instruments, the largest US semiconductor manufacturer returned to modest profit-ability in the second quarter for the first time since the first quarter of 1985. Second quarter quarter or 1963. Second quarter net income was \$12.3m, or 35 cents per share, compared to a loss of \$3.9m (16 cents a share) in the same quarter last year. Sales were flat at \$1.24bm. For the first six months TI reported a per loss of \$11.5m. reported a net loss of \$11.5m. which included a charge of

TI said that its semiconductor business operated at a small loss in the second quarter but that the financial performance of this sector has improved over the same period a year ago and the first three months of 1986. Orders from US industry increased in the second quarter but distributor orders declined, the company said.
In its data systems business,
TI turned a profit

 $\mathcal{U}_{\mathcal{C}_{S}^{i_0}(\mathfrak{g}_{i_0}^{i_0})}$ 

### **Sydney Futures** fees revised

SYDNEY Futures Exchange, which has recently been turning over record volumes, is to
simplify and cut sharply its
clearing and exchange fees
from August I, Alexander
Nicoll reports.

The total cost of a round turn
purpose and solo will fell

—purchase and sale—will fall from A\$4.30 to A\$2.50 (US\$1.50) though concessional rates for same-day round turns have been withdrawn. Locals—individuals who trade for their own account, mostly by making

dag trades—will instead receive rebates.

Mr Les Hosking, SFE chief executive, said the exchange has begun a comprehensive review of its clearing arrangements. "The clearing fee reductions are an interim measure to bring the charges closer in line with those on other exchanges while this review is conducted."

The SFE and the London International Financial Futures Exchange (Lifte) plan a link under which US Treasury bond and Eurodollar deposit futures traded on both exchanges will

CORPORATE FINANCE

# Standard Oil faces up to reality

which included a charge or \$10.8m for the redemption of debentures in the first quarter. Sales were down slightly at \$2.39bn corpared to \$2.52bn in \$2.52b

Petro-Lewis expanded fast in

WE WANTED to reflect the Standard's new management- ard & Poor's (S & P), the US biggest of its kind in the world. change in our strategy in our balance-sheet and show our the block—has highlighted the investors what we are made of," says Mr John Browne, the young financial specialist from British perties are probably worth to a new career in Cleveland the property of a labour settle to a new career in Cleveland the property of t

ment team has been in place less than four months but is make money looking for oil in already beginning to show its mettle. Last week the company announced \$1.430n of pre-tax 1.8m acres, or about half of its make company announced \$1.430n of pre-tax 1.8m acres, or about half of its prawing coal operations which should ensure that it will make a comfortable return away to put increasing and gas exploration leases and two producing properties. Another \$460m was set aside of a motley collection of none petroleum assets and the group's coal business was written down by \$270m.

The special charges—coming less than eight months after the previous management team to five years. Since the company had announced \$1.480n of write-offs barrel over the next free of six makes of Standard Oil 's example. Standard Oil's example. Standard oil is simming its sprawling coal operations which should ensure that it will make a comfortable return away to put increasing reliance on coal as the Alaskan where the example oil ran out. Standard Oil is previous management's ploration activity in the frontier areas of Alaska where the example oil ran out. Standard Oil is proving the previous management oil ran out. Standard Oil is proving the content of the write-offs of the US. Standard oil is simming its sprawling coal operations which which should ensure that it will make a comfortable return away to put increasing reliance on coal as the Alaskan oil ran out. Standard Oil is not in the lower in a standard Oil is a previous management's proving the pr

to a new career in Cleveland. Ohio, as chief financial officer of Standard Oil, BP's 55 per cent-owned US substidiary.

Standard Oil's new management team has been in place less than four months but is already beginning to show its mettle. Last usell is a new career in Cleveland, of they were 12 months ago. To date, Standard Oil is the only dilemma that most oil company to have publicly acknowledged this fact.

It argues that at \$15-a-barrel the average oil explorer cannot make money looking for oil in the lower 42 standard oil is already beginning to show its mettle. Last usell is already beginning to show its mettle. the average oil explorer cannot in addition to the write-offs make money looking for oil in on its oil and gas operations, the lower 48 states of the US. Standard is slimming its Consequently, it is abandoning sprawling coal operations which should ensure that it will make a comfortable return

### Freeport agrees to buy **Petro-Lewis for \$440m**

BY OUR FINANCIAL STAFF PETRO-LEWIS, THE struggling eration, the buyers will also Denver-based oil and gas group refinance \$275m of Petro-Lewis which warned earlier this year and American Royalty's debt. that it might have to seek liquiton or bankruptcy reorganitus abund \$750m, of which sation, is to be bought in a Freeport said it is prepared to complex \$440m cash deal by a commit \$150m initially. The group headed by Freeport-remainder is likely to be raised McMoRan, the US natural for Freeport by Kidder Peabody.

resources concern. Freeport has signed a letter the early 1980s by borrowing of intent covering the acquisition of Petro-Lewis and of oil and gas assets which American Royalty Trust, a were then sold to wealthy individuals as limited partnerships.

Denver company has a 22 rear However falling energy prices Denver company has a 23 per

### Arabs propose takeover of French shipbuilder

A GROUP of Arab investors has proposal by Intra Invest for La shown interest in aquiring a Ciotat and the union says it is large part of the assets of Normed, the bankrupt French shipbuilding group. The company was recently forced to file for bankruptcy after the French right-wing government decided to cut back subsidies to ship-

Normed owns three shipyards including La Ciotat and La Seyne on the Mediterranean and Dunkirk in the north. In all, However falling energy prices have stemmed the cashflow from the company employs 6,800 workers.

prepared to negotiate with the Arab group. The unnamed group of Arab and Belgian investors interest in the Dunkirk yard was disclosed by Mr Claude Prouvoyeur, the rightwing senator and mayor of the wing senator and mayor of the

Government, announced the programme of incentives to belp workers made redundant by the eventual closure of the Normed yards, has so far adopted an extremely cautious attitude towards the

Moreover, there are also reports that Alsthom, the French engineering and ship-Belgian investors is interested in the Dunkirk yard.

The pro-Communist CGT tricite (CGE) group, is studying union has revealed a takeover a plan for La Ciotat.

### Brierley wins 16% stake in NZI

BY DAI HAYWARD IN WELLINGTON

BRIERLEY INVESTMENTS, the more than 20 per cent of NZI. New Zealand-hased holding company of Mr Ron Brierley's international investment group, has bought a 16.7 per cent stake in NZI, the insurance and fi nancial services group, for NZ\$144m (US\$76m).

The move was interpreted as a defensive one that will help protect NZI from possible unwelcome takeover bids. Brierley has given an undertaking that it will not acquire

There have been rumours recentin the offing. Last Wednesday the share price jumped by 11 cents to

This was the price at which Briering group, and the remainder in the into force later this year.

**NEW INTERNATIONAL BOND ISSUES** 

NZI is New Zealand's fourth largly that a bid for Brierley might be est company by market capitalisation, with a market value of NZ\$1.1bn. It has assets of about NZS5.7bn and reported annual net profits of NZS85.2m for the last filey bought its 72m shares. Just nancial year. It has also recently more than half of this figure was announced that it would apply for a bought from Fletcher Challenge, full banking licence once the counthe forest products and manufacturitry's new banking legislation comes

| Serrowers  | Amount<br>M. | Maturity     | Av. life<br>years | Coupon<br><sub>Q/p</sub> | Price   | Book Runner            | Oifer yie |
|--|--------------|--------------|-------------------|--------------------------|---------|------------------------|-----------|
|  |              | maunky       | 700.3             |                          |         |                        |           |
| U.S. DOLLARS<br>Burlington and. §1               | 75           | 200 t        | 15                | 7                        | 100     | Kidder Peabody         | 7.90      |
| Personi Cemi 6+                                  | 100          | 1593         | '7                | 31/2                     | 100     | Gaiwa Europe           | 3.50      |
| Kumagai Gumi §‡<br>Mitaubishi Plastics ¶‡        | 30           | 1981         | Ś                 | 21/2                     | 100     | Mikko Secs (Europe)    | 2.87      |
| Lorinar Talenictures 51                          | 100          | 2001         | 15                | 6                        | 109     | Drexel Burnbam Lambert | 5.00      |
|  | 100<br>78    | 2001<br>1991 | 19                | 23/4                     | 180     | Nomura int.            | 2.75      |
| Mitsui Petrochemical §‡<br>Japan Coated Paper ¶‡ | 25           | 1991         | 5                 | 276                      | 188     | Mikka Sees (Europe)    | 2.87      |
| Newmoost Missing 51                              | 100          | 2001         | 15                | 7                        | 190     | Salomon Brothers       | 7.00      |
| Now Zeekad †‡                                    | 500          | 1993         | 7                 | (m)                      | 100.275 | Salomon Brothers       | 7.00      |
| City Fed. Savings Bk (h) ††                      | 75           | 1993         | ź                 | 5bp                      | 100     | Shearson Lebman Bros.  |           |
| DeBartolo Capitei Corp. 1                        | 120          | 1996         | 10                | 8                        | 100     | Chemical Bank          | 8.00      |
| Mori Seiti Co. T                                 | 6D           | 1991         | 5                 | (27/a)                   | 100     | Yamaichi Int. (Eur)    | 0.00      |
| Commerzbank Tİ                                   | 200          | 1993         | 7                 | (c)                      | 100     | Commerzbank            |           |
| Osaka Gas İ                                      | 200<br>50    | 1993         | į                 | 874                      | 1013/2  | Nomura Int.            | 7.98      |
| Tec Bectronics ¶                                 | 50           | 1991         | Ś                 | (27/2)                   | 100     | Nonura Int.            | 1.30      |
|  | 30           | 1991         | 5                 | (21/4)                   | 100     | Nikko Secs (Europe)    |           |
| Japan Dev. & Con. 1                              | 20           |              | 5                 | (2%)                     | 100     | Daiwa Europe           |           |
| Nikken Chemicals ¶                               |              | 1991         | 7                 |                          | 100     | Nomura Int.            |           |
| hageya Co. ¶                                     | 30           | 1993         |                   | (3%)                     | 100     |                        |           |
| Royal Co. 5                                      | 68           | 2001         | 15                | (25/1)                   |         | Nippon Kangyo K'maru   |           |
| Bank of Hova Scotia (f) †‡                       | 366          | 2085         | 99                | 1/g                      | 100     | CSFB<br>CSFB           |           |
| Citicons (g) †‡                                  | 350          | 2001         | 25                | 1/4                      | 100     | ==-=                   |           |
| Chase Manhettan 12                               | 258          | 1991         | 5                 | (c)                      | 100     | Chase Manhattan        |           |
| CIBC (I) †‡                                      | 250          | 2085         | 99                | 1/a                      | 100     | CSFB                   |           |
| National Bit Carada (f) 11                       | 200          | 2085         | 99                | ¥2                       | 100     | CSFB                   |           |
| Retional Bk Brunei (f) 1‡                        | 30           | 1991         | 5                 | 1/E                      | 100     | Bge Gutzwiller, K.B.   |           |
| Nippon Shinpan 🖫                                 | 250          | 1991         | 5                 | (2%)                     | 100     | Daiwa Europe           |           |
| Nippen Shinpan ¶                                 | 50           | 1981         | <u>5</u>          | (234)                    | 100     | Nomura Secs (S'pore)   |           |
| Nordic Inc. Bank (k) ‡                           | 180          | 1993         | 7                 | 71/2                     | 1001/4  | Morgan Stanley         | 7.45      |
| Sumitomo Corp. O'seas (j) ‡                      | 60           | 1989         | 3                 | 3                        | 100     | Daiwa' Sumitomo Trust  |           |
| East Niver Sevings Bk (b) †‡                     | 188          | 1993         | 7                 | 5bp                      | 109     | Salomon Brothers       |           |
| D-MARK   |              | ****         |                   |                          |         | B                      |           |
| EDF 1  | 308          | 1996         | 10                | 6%                       | 997/4   | Deutsche Bank          | 6.15      |
| Deutsche Bk Fin. (j)‡                            | 200          | 1\$51        | 5                 | 3                        | 100     | Deutsche Bank          |           |
| SWISS FRANCS                                     |              |              |                   | <b>.</b> .               |         |                        |           |
| Mitsui Petrochemical** §‡                        | 100          | 1991         | _                 | 7∕8                      | 100     | UBS                    | 9.87      |
| Moni Seits Co.** ¶                               | 38           | 1993         | -                 | (11/4)                   |         | Credit Soisse          |           |
| Ando Construction" ‡                             | 40           | 1991         | -                 | 51/2                     | 100     | Dai-Ichi Kangyo Bk     | 5.12      |
| LADB ‡   | 100          | 1994         | -                 | 5%                       | 100     | Credit Suitse          | 5.37      |
| LADB ‡   | 125          | 1998         | -                 | 5%                       | 160     | Credit Suisse          | 5.62      |
| Daiki Aheninieux"" ¶                             | 25           | 1991         | -                 | (1)                      | •       | Handelsbank            |           |
| IBM World Trade" ‡                               | 350          | 1996         | -                 | 4%                       | 991/2   | SBC                    | 4.54      |
| Kitz Corporation** 9                             | 70           | 1991         | -                 | (1)                      | •       | Credit Suisse          |           |
| Seikitokyu Kogye" * ¶                            | 40_          | 1991         | -                 | (1)                      | •       | Swiss Volksbank        |           |
| RENCH FRANCS                                     | 600          | 1996         | 10                | 81/a                     | 101     | COF                    | 7.97      |
| Saint-Gobain (s) ‡                               | 500          | 1939         | 10                | 878                      |         | - CUF                  | 7.97      |
| STERLING<br>Pikington Bres. 91                   | 35           | 1991         | 5                 | 91/2                     | 115     | J. R. Schroder Wago    | 5.94      |
|  |              | 1431         |                   | 372                      | - '''   | o. ir actions 1.120    |           |
| ECUs<br>EDF (d) †                                | 186          | 1998         | 12                | 7%                       | 98      | 2560                   | 7,38      |
| Stanley Atlantic ‡                               | 55           | 1993         | 7                 | 73/4                     | 1001/2  | Morgae Guaracty        | 7.58      |
| /EN  |              |              |                   |                          |         |                        |           |
| Kansalis-Osaka-Pankir †‡                         | 10bn         | 1991         | 5                 | (h)                      | 1915/6  | Yansaichi Int. (Eur)   |           |
| tentic lav. Bank t                               | 15be         | 1995         | 9                 | 534                      | 1B1     | Daiwa Europe           | 5.60      |

TME + 20thp. During first yr issue can be exchanged into 7¼ 1996 hand. (f) ¼ over See Libor. (g) ¼ a over 3m Libor. (h) Reverte FRN, In-ked to yen See Libor (j) "Bull"-"Bear" bend, Enked to share index. (k) Pertly-paid. Note: Yields are calculated on AIBU basis.

All of these Securities have been sold. This announcement appears as a matter of record only.

U.S. \$250,000,000

# General Motors Acceptance Corporation

8%% Notes Due 1991

MORGAN STANLEY INTERNATIONAL

DEUTSCHE BANK CAPITAL MARKETS

NOMURA INTERNATIONAL

**MERRILL LYNCH CAPITAL MARKETS** 

UNION BANK OF SWITZERLAND (SECURITIES)

ALGEMENE BANK NEDERLAND N.V.

BANKAMERICA CAPITAL MARKETS GROUP

BANK OF TOKYO INTERNATIONAL

BANQUE BRUXELLES LAMBERT S.A.

BANQUE NATIONALE DE PARIS

CREDIT LYONNAIS

DAIWA EUROPE LIMITED

GULF INTERNATIONAL BANK B.S.C.
Capital Markets Group KUWAIT INVESTMENT COMPANY (S.A.K.)

MANUFACTURERS HANOVER

NIPPON CREDIT INTERNATIONAL (HK) LTD.

SOCIETE GENERALE

May, 1986

ARABIAN GENERAL INVESTMENT CORPORATION
(Agico) BANK LEU INTERNATIONAL LTD BANKERS TRUST INTERNATIONAL BANQUE GENERALE DU LUXEMBOURG S.A. **COMMERZBANK** CREDITANSTALT-BANKVEREIN GENOSSENSCHAFTLICHE ZENTRALBANK AG Vienna IBJ INTERNATIONAL

LLOYDS MERCHANT BANK MITSUBISHI FINANCE INTERNATIONAL

SUMITOMO TRUST INTERNATIONAL

*NORDDEUTSCHE LANDESBANK* 

1,500,000 Shares NEW ISSUE Merrill Lynch Capital Markets Bear, Stearns Int 4,500,000 Shares 6,000,000 Shares Merrill Lynch Capital Markets Bernard Chaus, Inc. Common Stock L Company States & Co., Tacker, Authory & R. L. Dav. Tor. Wheat, Farit Securitars, Inc.

# F & H valued at £12.6m through USM placing

The issue is the first to be sponsored by the stockbroking firm Scott Goff Layton, since it took its new title of Smith New Court Agency and linked with N. M. Rothschild, the merchant bank, and Smith Brothers, the

stockjobbers.

Smith New Court Agency is offering 3.6m shares—some 38 per cent of the equity—at 134p each. Most of the proceeds will be used to buy out the company from one of its founders. Mr Dennis Fine, and his family.

F & H started business as an electrical contractor in 1967, but in the early 1970s began developing control systems for industrial plant. Its systems are now mainly based on microprocessor technology and are used in a variety of industrial and commercial applications, although the car industry accounts for 60 to 70 per cent of turnover.

**Berisfords sees** 

The directors of Berisfords

The directors of Berisfords Group have confirmed that, after the setback of the year ended March 31 1986, the current term would produce a pre-tax profit of some £900,000, and the dividend would be increased to 6.5p net.

In their successful fight against the bid from Allied Textile Companies the directors forecast profits of not less than £125,000 compared with £729,000 the year before. In

£125,000 compared with £729,000 the year before. In the event the profit came to £133,000, earnings were 2.4p (9.9p) and the dividend is the forecast unchanged 5.28p, the

final being maintained at 3.73p. The group manufactures ribbons, labels. trimmings, embroidery and lampshades.

£900,000

for 1986/87

of turnover.

The company operates in a highly fragmented industry F & H's prospectus is properly get one.

F & H Group, the supplier of with about 180 other small busi- frank about the reasons for this industrial control systems being floated on the USM, comes to the market today with an offer for sale which will value it at \$2.26m\$. The issue is the first to be \$2.60m\$. With about 180 other aman to the float about 400 tleads a market today with an offer says its closest competitors are \$2.60m\$. Switchgear & Instrumentation, a subsidiary of N. G. Balley, and \$2.60m\$. Servelec and Deeside Automation in the business in private like most of its competitors. Now

The prospectus shows pre-tax profits rising from £120,000 in 1982 to £1.8m in the year to last April, on turnover up from £1.9m to £8m. Progress has not always been steady but the company says its sales side has been strengthened and con-

last April, on turnover up from a fill management controls to always been steady but the company says its sales side has been strengthened and contracts are now flowing more smoothly.

There is no profits forecast company to the USM on an historic mulitiple of 11.1. It offers a notional gross dividend yield of 5 per cent.

The flotation coincides with an announcement by F & H that it has been awarded a £2m contract for the installation of control systems in London Heathrow airport's Terminal 3 haggage handling facility. It has already supplied a similar system for Terminal 4. system for Terminal 4.

BY RICHARD TOMKINS

### Unigroup expands to £0.56m for year

Unigroup, a holding company involved mainly in clothing manufacturing, announced pre-tax profits of £562,000 for the year to April 30 1986 against £21,000 for the 10-month period to April 1985. The directors were confident that significant progress would continue to be made in all trading divisions. Turnover for the year amounted to £8.19m (£2.16m).

most of its competitors. Now exposed to the full glare of an

offer for sale, some points of concern emerge: the sales effort and management controls do

not appear to have been strong

Court Agency wants for its debut on the new issues scene is a fiop, and it has powerful allies to ensure that it does not

The prospectus says Omnitech has reached agreements under which distributors have under-taken to find orders for at least

Omnitech for market this

OMNITECH, the start-up venture which claims to have a revolutionary packaging at the placing price.

Trust will be worth nearly £3m revolutionary packaging at the placing price.

Joint sponsors for the placing a share when it comes to the are licenced dealers Security USM through a placing of 3m shares this week, giving it a market capitalisation of £5.9m.

The packaging machine, called Omnitrac, has been researched and developed by Omnitech's managing director. Mr Michael

and developed by Omnitech's which distributors have undermanaging director, Mr Michael Barker. It is aimed mainly at 20 machines in the first year, the food industry and the company believes it offers significant efficiency benefits over conventional models.

Omnitrac has now been developed to prototype stage and is about to be tested in a working environment. The flotation of 17 per cent of the equity will raise £880,000 net which will be used to fund the machine's marketing and promotion.

which distributors have undertaken to find orders for at least 20 machines in the first year, half of them in the UK and half in the Americas.

However, it also warns that all start-up ventures involve high risk and there can be no guarantee that sales will be forthcoming.

Ailsa Inv. ahead

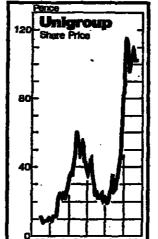
A successful year at Ailsa Investment Trust saw earnings

week at 33p per share

amounted to £8.19m (£2.19m).

They have proposed a single final dividend of 1.1p (0.2p for 10 months) to be paid out of significantly higher earnings of 7.12p (0.24p) per 15p share.

Following the group expansion, and move to head offices at Witham, Esser, Mr Ivor



Goodman has been appointed chairman, and Mr Maurice Miller, the former chairman, will continue as a non-executive director.

tive director.

After tax, up from £5,000 to £132,000, and minorities unchanged at £2,000, attributable profits came out at £450,000 (£14,000). There was an extraordinary debit of £386,000 (£112,000) relating mainly to the closure of the aerosol division.

# Black Arrow up 23% to £1.62m

susce Arrow Group produced (£540,000), and goodwill written substantially higher results in off was £881,000, relating to the year ended March 31 1986. acquisitions made shortly before Profits were ahead 28 per cent, the year-end, earnings pe rahare 31 and arrows. earnings per rehare 31 per cent, and dividends 19 per cent.
Turnover rose 37 per cent.
from £9,16m to £12,53m, and

from £9.16m to £12.53m, and the pre-tax profit moved up from £1.32m to £1.62m. Earnings were 15.41p (11.79p) and the final dividend is 3.25p to make a net total of 5p (4.2p).

During the year the electrical wholesaling operation was discontinued, and the company was now concentrating efforts in office furniture distribution, office contracting and leasing.

Leasing and instalment finance accounted for £1.57m (£1.29m) of turnover, office distribution and partitioning for £10m (£6.92m), electrical appliance distribution and other activities for £959,000 (£944,000).

Tax charge was £608,000 in January, were also disclosed. They showed turnover from the manufacture and sale of office furniture and equipment the loss before tax to £357,000 (£106,000).

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There were exceptional the contracting efforts in office furniture and equipment the loss before tax to £357,000 (£106,000).

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There were exceptional the loss before tax to £357,000 (£106,000).

There were also disclosed.

### Sommerville well ahead despite second half fall

William Sommerville & Son, be said that things had almost Midlothian-based paper maker, all gone the company's way. schieved record turnover and profits in the year ended May profits had been invested wisely 1986. With second-half presume the profits had been invested wisely may be a company to the director of company. profits had been invested wisetax profits amounting to
f204,000 against £252,000, the
full year result came out at
f2170,800 ahead at £528,922.

Mr Gordon Wallace, managing director, said it was the While its market seemed set fair at present, he warned that the paper trade was notoriously cyclical, and it was by no means impossible that in six months time they would be wondering from where the part order was ing director, said it was the first time in many years the company had managed to put together two good half years, although the second half was not as profitable as the first because of much increased defrom where the next order was

preciation due to high capital In common with the rest of the fine printing and writing industry in the UK, demand for Sommerville's products had preciation due to high capital expenditure.

The directors have proposed an increased 8p (6.45p) final, to bring the total for the year to 9p (7p). Earnings are shown well ahead at 47.02p (33.28p).

Looking ahead, Mr Wallace said it would not be easy to repeat the success of the year under review, where it could been strong over the year.
Turnover improved by 19 per
cent to 27.87m (£6.59m).
The company was able to
maintain margins despite pulp
costs increasing in the second

### Plessey not buying Ferranti

Plessey yesterday denied press rumours that it was buying shares in fellow electronics company Ferranti.

"There is no truth in the speculation that we are attempting to buy shares in Ferranti or engage in poison pill activities," the company said in an interest of investigation last January. However, the Denartraise 2880,000 net which will be used to fund the machine's marketing and promotion.

The following securities have been added to the Share Information Services:

Bredere Properties (Section: Property)

British Island Airways (Industrials)

The issue will also enable of the Share Information Services:

The issue will also enable of the Share Information Services:

The issue will also enable of the Government trust saw earnings double to 5.17p and the net asset value surge ahead to 142.9p, from 115.6p, by May 31 1986.

On July 18, the value was up to 142.5p.

The directors raised the dividend from 1.8p to 2.5p, with a by Gresham House and its final of 1.5p.

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JUNE, 1986

BOARD MEETINGS

# PENDING DIVIDENDS

Dates when some of the more important company divide statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's appearance ments except where the forthcoming board meetings (indicated time") have been officially notified. Dividends to be declared will not necessarily be at the amounts in the column headed "Appouncement last year."

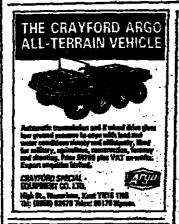


U.S.\$100,000.000

ALLED INSM BANKS PLC Proported with insted in the or in Republic of Inland under the Computed Acts, 1968 to 1988

Percetual Floating Rate Notes

ded Primery Capital



Perpetual Politing Halls Notes
The Potorchance with the provisions of
the Notes, notice is hereby given, that
for the three months interest period
from July 28, 1986 to October 28,
1866 the Notes will carry an interest
rate of 716% per annum. The interest
payatifs on the relevant interest payment date October 29, 1866 against
October No. 6 will be U.S.\$182.08 and
U.S.\$4,532.08 inspectively for Notes
in denominations of U.S.\$10,000 and
U.S.\$250,000. The sum of

U.S.\$250,000. The sum of U.S.\$162,000 area of U.S.\$162,000 will be payable per U.S.\$162,000 principle amount of Registered Notices.

July 28, 1998
By: The Cases Numberland Bank, N.A. Quandon, Agent Bank.

This advertisement is issued in compliance with the requirements of the Council of The Stock Exclusive. It does not constitute an invitation to any person to subscribe for or purchase any securities of Miles 33 Plc.

LADBROKE INDEX 1,264-1,370 (--6)

# Miles 33 plc

Introduction of 4,300,000 Ordinary Shares of 100 each to The Stock Exchange

25th July 1986 may be obtained from the Company Announcements Office. The Stock Exchange, Throgmorton Street, London EC2P 2BT, for two days from the date of this notice and, during normal business hours on any weekday (Saturdays

GREENE & CO. Bilbao House, 36/38 New Broad Street London EC2M 1NU

28th July 1986

Tax for the year rose from £143,132 to £225,448.

FINANCIAL TIMES STOCK INDICES 89.19 88.86 88.74 88.55 1264.2 | 1286.8 | 1274.7 | 1276.3 | 1295.4 | 1426.9 | 185.7 357.0 196.7 195.9 197.2 189.7 188.4 767.00 | 769.93 | 779.84 | 774.43 | 773.58 | 797.84 832.39

**NEW ISSUE** ment appears as a matter of record only.

**Alaska Housing Finance Corporation** 

U.S. \$125,000,000

Floating Rate Notes Due July 2001

Issue Price 100.10%

Kidder, Peabody International Limited

IBJ International Limited

Prudential-Bache Securities International

BankAmerica Capital Markets Group Bank of Tokyo International Limited Banque Bruxelles Lambert S.A. Banque Paribas Capital Markets Limited Credit Suisse First Boston Limited First Chicago Limited Fuji International Finance Limited Goldman Sachs International Corp. E F Hutton & Company (London) Limited Merrill Lynch Capital Markets Mitsubishi Finance International Limited Mitsubishi Trust International Limited Orion Royal Bank Limited Saitama Bank (Europe) S.A. Salomon Brothers International Limited Sumitomo Trust International Limited

Takugin International Bank (Europe) S.A.

All of these securities having been sold, this ann appears only as a matter of record.

**NEW ISSUE** 

April, 1986

U.S. \$100,000,000

**Alaska Housing Finance Corporation** 

8¼% Secured Bonds, 1986 Series A

IBJ International

Kidder, Peabody International

Bank of Tokyo International

Banque Bruxelles Lambert S.A.

Banque Paribas Capital Markets

Chemical Bank International Group

Credit Suisse First Boston

First Chicago

Fuji International Finance Goldman Sachs International Corp. E F Hutton & Company (London)

Sumitomo Trust International

Merrill Lynch Capital Markets

Salomon Brothers International

### ET IMIT TRICT INFORMATION SERVICE

| Issue<br>Price     | Pad         | Latest<br>Resear | 1         | 986      | Г                  | Stock                          |                    | + 55          | HeL.          | Times    | Green    | P.E          |
|--------------------|-------------|------------------|-----------|----------|--------------------|--------------------------------|--------------------|---------------|---------------|----------|----------|--------------|
|                    | ) mb        | Date             | High      | Lo       | ╗                  | 3502                           | Proce              | ļ <b>-</b> ļ  | Der.          | Covid    | Yield    | Rad          |
| <b>9125</b>        | F.P.        | 24/7             | 167       | 136      | - <del>  4</del> / | Accord Publications So         | 366                | -1            | Re3 1         | 26       | 26       | 21.          |
| 和<br>和<br>15       | F.P.        | 15/6             | 127       | 108      | ارا                | Urapruno Group 10p             | 112                | 1+4           | 5.4           | 2.8      | 6.8      | 17.4         |
| 115                | F.P.        | 228              | 141       | 128      |                    | lingita Sec Homes 10p          | . 130              |               | R1.63         |          | 1.8      | 16.1<br>23.1 |
| ¥67                | l FP i      | ave .            | 190       | 155      |                    | fington Sec. 10p               | 173                | +3            | b1.7          | 4.3      | 1.4      | 23.          |
| 4145               | FP          | 15/8             | 71<br>158 | 345      |                    | 3BB Design Gro 50              | .70                | ļ <u>.</u>    | 11.0          | 4.2      |          | 16.          |
| _ 11 11            | F.P.        | 1-20             | 53        | 41       |                    | Seaverco 5p                    | 147                | -5            | i5.0          | 2.4      | 4.8      | ]11.         |
| 93712              | F.P.        | 25/7             | 4312      | 30       |                    | ertrams inv. Tst<br>Soci 50    | 42                 |               | R1.225        | 3.       | 4.1      | 10.          |
| 125                | F.P.        | 848              | 147       | 128      |                    | Sortand Intl. Inc.             | 142                | +1            |               | 1.4      | ió       | 19.          |
| 963                | F.P.        | 6/8              | 69        | 61       |                    | amolect 10p                    | 46                 | <del></del> - |               | 24       |          | ii.          |
| VIIO.              | F.P.        | 18/7             | 115       | läs      |                    | bell & Armstrong 5p .          | 95                 | -5            | 13.91         | 1.9      | 5.5      | 12           |
| ೊಡ                 | F.P.        | 7/8              | 135       | 129      | 144                | helsea Man 50                  | 129                | l             | 122           | 28       | 24       | 21.          |
| 119                | F.P.        | 18/7             | 110       | 85       | C                  | arkson (Horace)                | 100                | [             | L4.75         | 1.5      | 6.7      | 13.          |
| 11<br>484          | F.P.        | :=               | 100       | 58       |                    | lyform Warrants                | 另                  | -2            | -             | ! — '    | -        | I            |
| 237                | F.P.<br>100 | 1/8              | 91        | 84       | 140                | oated Electrodes 50 .          | 88                 |               | <b>u3.9</b>   | 1.6      |          | 13.          |
| 570                | F.P.        | 22/8             | 110<br>74 | 90       |                    | e Corp                         | 92                 | -1            | 5.8           |          |          | 17.          |
| 220                | F.P.        | 220              | 200       | 191      | 121                | letcher Der'ys S. 5p .         | .73                | -1            | 125           | 1.9      |          | 15.          |
| 150                | F.P.        | 257              | 156       | 150      |                    | T. Management 10               | 195<br>156         |               | R3.0          | 3.4      |          | 16.          |
| 150                | F.P.        | ٠                | 161       | 竳        |                    | thrie Corp                     | 157                | +4            | 45.3<br>Se5.0 | 22<br>27 |          | 10.4         |
| 492                | F.P.        | 28/8             | 95        | 87       |                    | ide Eromom 10o                 | 95                 | +7            | 12.0          | ร์ว์     |          | 13.          |
| 495 \              | F.P.        | 247              | 117       | 90       |                    | ledgson Hidgs 5p               | บั่ว               | +2            | R2.13         | 23       | 27       | 20           |
| §20                | F.P.        | _                | 25        | 21       |                    | lughes Food 50                 | 23                 | [-ī           | Ro.5          | 28       | 3i       | 16.          |
| -== 1              | F.P.        | _                | £36       | E36      | [JF                | Pacific Warrant S.A.           | £36                | ا ا           |               | _        | <u> </u> | _            |
| R30                | Mil         |                  | 325       | 180      | Jo                 | el (커니) Ltd Units              | 180                |               | _             | l — !    | _        | l –          |
| 9150               | F.P.        | 13/8             | 159       | 158      |                    | einwort Dev. Fast              | 158                |               | _             | _        | _        | l —          |
| 100<br>1500        | F.P.        | 15/8             | 90        | 85       | 44                 | 16 Cash & Carry                | 88                 |               | u3.55         | ᄱ        | 5.7      | 9.8          |
| 520  <br>5120      | F.P.        | 29/8             | 516       | 440      | 164                | rgan Grenfell £1               | 440                |               | LB.5          |          | 2.7      | i            |
| 3113 I             | F.P.        | -=               | 120       | 112      |                    | er. Computers 5p               | 112                |               | R3.0          | 33       | 3.B      | 11.4         |
| 775                | F.P.        | 29/8             | 114       | 113      | . [SŁ              | David's Inv. Tst. IDC.         | 113                |               | H68           | -1       | 8.5      | -            |
| 572 l              | F.P.        | 29/8<br>15/8     | 77<br>160 | 75<br>99 |                    | Do Cap                         | .75 <sup>1</sup> 2 | <u>-</u>      |               | =1       | - 1      | _            |
| 5165               | F.P.        | 1/8              | 184       | 162      | 133                | hield Group 5p<br>mailbone 10p | 130                | -5            | 120           |          | 22       | 19.0         |
| ا تے۔'             | F.P.        | 20               | 55        | 43       |                    | with Newcourt War'ts           | 50                 |               | =5.0          | 2.1      |          | 15.1         |
| 540 l              | F.P.        | 31/7             | 42        | 35       |                    | oundtracs 5g                   | 40                 | •••••         | 61.2          | 28       | 42       | 11.9         |
| 698                | F.P.        | 6/8              | 106       | ãã       |                    | pace Planning 100              | 100                | -2            |               | 34       |          | 16           |
| សរល                | F.P.        | 28/8             | 125       | 119      | 56                 | tiley Leisure                  | 124                |               | 325           | 28       |          | 13.7         |
| 130 1              | F.P.        | 1                | 142       | 135      | 147                | V-am 10p                       | 140                | +1            | R5.75         |          | 5.8      | 9.4          |
| <b>(795</b>        | F.P.        | 25/7             | 114       | 104      | l i                | ask Force 50                   | 110                |               |               | 3.8      | 23       |              |
| 112                | F.P.        | 8/8              | 130       | 116      | ) Te               | nby 50a                        | 128                | ·             | p4.0          | ãs       | 44       | 9.9          |
| 190                | F.P.        | 1/8              | 242       | 219      | Th                 | ZTRES TV                       | 224                | -1            |               | 19       | 60       |              |
| 120                | F.P.        | 6/8              | 130       | 100      | ITH                | bet & Britten So               | 125                |               | 13.5          | 26       |          | 14.0         |
| 963                | F.P.        | 22/8             | 68        | 66       | Un                 | ilock 20p                      | 66                 |               | 1.98          | 27       |          | 12.5         |
| .#1                | F.P.        | !                | 100       | 95       | W                  | fshinoLinv. Tst. Sp            | 100                |               |               | -1       |          | _            |
| 106                | F.P.        | 22/8             | 132       | 110      | W                  | nxismoor 5p                    | 770 \              |               | 43.25         | 23       | 4.2      | 14.8         |
| IXE                | ED.         | INT              | ERI       | ESI      | r s                | TOCKS                          | •                  |               |               |          |          |              |
|                    | _           | eni Lat          |           |          |                    | <del></del>                    |                    |               | _             | Clasi    |          | _            |
| Itsae              |             |                  |           | 198      |                    | I -                            |                    |               |               |          |          |              |
| Isse<br>Price<br>£ | Pai         |                  | anc       | 17R      | <b>.</b>           | _  s                           | tock               |               |               | Prix     |          | - or         |

| Price              | Amount<br>Paid | Latest<br>Resunc | 19       | 86   | Stock                                    | Closing<br>Price | +•            |
|--------------------|----------------|------------------|----------|------|--|------------------|---------------|
| £                  | <b>4</b>       | Caste            | High     | Low  |  | ١٤               | -             |
| <i>9</i> 97.947    | 525            | 17/9             | 27%      | 25%  | Bankers (mr. Tsz. 1012% Deb. 2016        | 254              | _             |
| 999.256            | £30            | 298              | 304      | 267  | Brit. Alcas Aluminium 104% Deb. 2011     | 274              | <b></b> .     |
| <b>974.203</b>     | 1 225          | 31/10            | 254      | 22¥  |  | 23%              | +4            |
| \$100p             | F.P.           | 15/B             | 107p     | 105p | Business Morrages Tst. 8.6%Cem Prf       | 107p             | lī            |
| 109.89             | E40            | 298              | 40       |      | Estates & Gen. 114% 1st Deb. 2018        | 374              | l             |
| <del>}9</del> 4.45 | E90            | 31/10            | 324      | 28,2 | European Isw. Bask 9% Ln 2001            | 29               | +2            |
| ı                  | No.            | 298              | 5фрат    | 2000 | *Fergatrook 12% Cmr Um Ln 1992-97        | 2ррпи            | l <sup></sup> |
| 96.114             | \$25           | 24/10            | 27%      | 25   | Globe (nr. 10% Deb. 2016                 | 25               | -4            |
| §99.054            | £40            | 129              | 415      | 394  |  |                  |               |
| 97.963             | £25 .          | 24/10            | 25%      | 19%  |  |                  | ++,           |
|                    | ! — I          | _                | 29       |      | JF Pacific Warrant S. A. Prel            | 29               | +4,           |
| 105.523            | £25            | Z1/8             | 26       |      | Land Securities 10% 1st. Mort. Deb.25    | 187              | 14            |
| ž į                | F.P.           | 14/8             | مريا 101 |      | Leigh Inc. 6% Cov. Cum. Red. Pri         | 100p             |               |
| 99.793             | 25             | 24/9             | 245      | 21   | Las. Shop Frep. 10% 1st. Mort. Deb. 2026 | 214              | +4            |
| 11                 | F.P.           | -                | 101      | %    | Mercury Intl. 7% Cum Pref                | 97               |               |
| H H                | F.P.           | ) —              | 136p     | 136p | Margan Gresfell 114% Com Pri             | 1360             | <i>,</i> .    |
|                    | F.P.           | _                | 100      | 99   | Matterwide 912 % 6/7/87                  | 99%              | -à            |
|                    | F.P.           | _                | 1004     | 99%  | Do. 104% 27/7/87                         | 9912             |               |
| <b>§99.937</b>     | 125            | 24/10            | 251      | 23%  | Do 3½% IL La. 2021                       | 24               |               |
| <b>¶100</b>        | 230            | 29               | 9 T      | 8    | Newcastle & Gate. Wtr. 7% Red. Pri. 94%  | В                |               |
| 95.512             | F.P.           | 8/8              | 9812     | 941  | Scot.Mort.6%12%Ste/dlqt.Deb.2026         | 961,             | +3            |
| §105               | 50             | 10/10            | 46       | 44   | Smith New Court 12pc Uss. La. 2001##     | 44               |               |
| 99.073             | 25             | 8/8              | 254      |      | Tous Est. 104% Lsr. Mort. Deb. 2011/16   | 22%              | ,             |
|                    | F.P.           | -                | 110      |      | Wight C'rs Cv. Cm. Rd. Prf. 1999 10a     | 120              |               |
| 100                | £50            | 12/9             | 50%      |      | Witzen Inv. 812% Deb 2016                | 464              |               |

| issue<br>Price              | Amount<br>Pard | Latest<br>Repond | 19                 | <b>78</b> 5       | Stock   | Clesus<br>Price   | +        |
|-----------------------------|----------------|------------------|--------------------|-------------------|---|-------------------|----------|
|                             | 1 EXP          | Dane             | High               | Low               | 1   | P                 | 1 -      |
| 49                          | Niji           | 29/8             | 36pm               | 17pm              | Abaco Invs. 5p  | 17pm              | 1        |
| 40                          | F.P.           | 4/8              | 51                 |                   | Anglo African Fin. 7129                                 | 42                |          |
| 470                         | F.P.           | 4/8              | 670                |                   | Amoragasta Hidgs, 51                                    | 625               | ł        |
| 55                          | F.P.           | _                | 5512               | 45                | Bertrams Inv. Tst. ———————————————————————————————————— | 45                | ۱        |
| 250                         | F.P.           | 12/9             | 290                | 245               | Boase Massausi Politit 121:20                           | 245               | I –∂     |
| 170                         | NA             | 2/9              | 23pm               | 16pm              | Colores 10p   | 20gm              | ١        |
| 465                         | F.P.           | 298              | 565                |                   | Costair Group   | 520               | ] -4     |
| 145                         | ATT I          | 20/8             | 40pm               |                   | Datasery, Inc. 5c                                       | 30pm              | -:       |
| 130                         | F.P.           | 14/8             | 146                |                   | Erskure House   | 132               |          |
| 165                         | NE I           | 2846             | 20pm               | 5pm               | Expanset Intil.   | Spen              | <b> </b> |
| 148                         | F.P.           | 20/8             | 182                |                   | Ibstock Johnsen   | 168               | ١        |
| 215                         | F.P.           | 15/8             | 278                | 230               | imi. Signal & Control 10c                               | 230               | l        |
| 200                         | I NJE I        | 29/8             | 20pm               | 10pm              |   | 20pm              |          |
| 120                         | Nir            |                  | 23pm               | 17pm              | Medmitser 100   | 23pm              | ١        |
| £]4                         | 196            | 129              | 230om              |                   | Priest Marians 51                                       | 23000             |          |
| 44                          | F.P.           | 29/8             | брга               |                   | #Sheraton Secs. 10p                                     | 21 <sub>20m</sub> | j –j     |
| 25                          | ] F.P. ]       | 11/6             | 29                 |                   | Sovereign Od & Gas                                      | 24                | -1       |
| 44<br>25<br>125<br>90<br>38 | i Na i         | - 1              | 21,040             | llpm .            | #Tod 50   | 11em              |          |
| 90                          | L NA           | 17/9             | 21 <sub>2</sub> 0m |                   | Top Value Inds. 10p                                     | 2pm               | +1       |
| 38                          | Not 1          | 28-8             | 212pm              | 1 <sub>L</sub> pm | 4Yelverton invs. 50                                     | 3 pm              | ·        |
| 41                          | Mil            | 29/8             | 35am               | 22m               | #York Mount   | 25om              | +)       |

### F.T. CROSSWORD PUZZLE No. 6084

# HIGHLANDER

|   | ACROSS                          | 3 | F |
|---|---------------------------------|---|---|
| 1 | Captain's final instruction     |   | r |
|   | for Titanic's orchestra? (7, 4) | 4 | S |
| 7 | Object to a stretch of arterial | 5 | I |
|   | motorway (3)                    |   | Ç |

25

- ACROSS

  1 Captain's final instruction for Titanic's orchestra? (7, 4)
  7 Object to a stretch of arterial motorway (3)
  9 Feel dispirited and inferior (5)
  10 Bad-tempered capital according to oral evidence (9)
  11 Scenery is laid out and goes into different places (9)
  12 Craft carrying oxygen to a blood vessel (5)
  13 An order from Scotland for plant—the list is subject to change (7)
  15 Left a long time back—Christmas in fact (4)
  18 A star can take on this work (4)
  29 Joined together by ancient fortunes possibly (7)
  23 Silver-blue and shining (5)
  24 Swear by sheep and lamb stew (9)
  25 Soccer authorities organised benefit dance (9)
  27 Stupid fellow takes the same short with nothing in it (5)
  28 How to deal with the fare inside a taxi (3)
  29 Where to find any number of coloured sheets? (6, 5)

  DOWN
  1 Lame, but off on a walk (8)

  13 Fells—an upland tract of pasture land (5)
  4 Silly fellow from Shell? (7)
  5 Influential person no longer came (3-4)
  6 Concealed listener hears vessel commissioned for raiding (9)
  7 One group of directors is on the train (6)
  6 Can take time for a holiday (3, 3)
  14 Leaders in popular music have to do more than score (3, 6)
  16 Provision of food might come to tragic end with daughter gone (8)
  17 Mineral yielding arsenic and top-quality osmium (8)
  18 Layer under the surface where vessels find fuel (7)
  19 Remember to replace bottle—it contains a type of medicine (7)
  19 Demure, quietly making dress up (5)
  OWN

1 Lame, but off on a walk (8)
2 Land mostly surrounded by Greek ocean (8)

The solution to last Saturday's prize puzzle will be published with names of winners next Saturday.

| -   |  | FT UNIT   | TRUST INF  | ORMATION   | SERVICE  |  |  |
|---|--|---|--|--|--|--|--|
| P.E.<br>Bado                                  | AUINUNIJEU Hersenha  | e Portromo So, WIH DUR  | Fortish in Count's  NON: Trustee, Kingmay, WG2  April John 17: 151.8 Aug. 4  2.01  2.02  2.03  2 | Levisor Fund Missagers Ltd (a) (i  | 0463 503649 35 Fountain St. Manchester N2 2AF 62.3 0.70 April Gasty Provided in Nov. 62.3 62.3 (c) (g) Matinasi Provided in Nov. 62.3 2004 62.3 62.3 62.3 62.3 62.3 62.3 62.3 62.3   | 061-236-5685 6 St Andrew Sq. Edmburgh<br>-0 71 2.78 Equity Acc162  | ים ולי מככי 131 כ  |
| 7.4<br>16.0<br>23.7<br>16.8<br>11.7           | Bid Offier + dr Yreid (Azzur-Union) Price - Gross - Gr | **************************************  | i. & A. Trust (a) (g) Rayloigh Raad, Brentwood La. 121. 0277 227300 La.  | American Erith (M) 588.6 64.5<br>Committing Energy (M) 24.8 52.5<br>Committee Sq. (Tr) 56.5 74.8   | +1.6 2.3 REF Europees Accom 199 6 -0.6 3.4 REF Text Accom 199 8 -0.6 3.5 REF Europees Accom 199 8 -0.6 3.5 REF Text Accom 199 8 -0.6 3.5 REF Text Accom 199 8 -0.6 3.5 REF Text Accom 199 8 -0.7 REF Tex | 40.1 13<br>40.5 0.8 Scottish Unit Manage<br>140 0.7 29 Charlotte Sq. Edinburgh<br>201 0.7 Pautic Feet (1) 50<br>22 29 World Growth 50<br>120 29 World Growth 150<br>121 29 Read American (71 11 11 12)<br>121 became Food 50   | 975<br>7 69.24 -01 075<br>7 38.4 -02 107<br>7 36.44 -02 107  |
| 19.9<br>13.5<br>12.1<br>21.2<br>13.7          | Capital Growth 149.4 158.9 -0.2 1.4) Accordingly American Growth 149.4 158.9 -0.2 1.4) SC Furnel Assis Pacific   | Managers Limited oborn, London WCIV 6PV 01-242 1146 6 FV 562 598 + 61 024 FV 61 - 24 1165 6 FV 61 024 FV 61   | 1-263 2575 Dealing: CII-263 943 paytel (sig.) — 79.5 196.2 — 79.5 196.2 — 79.5 196.2 — 79.5 196.2 — 79.5 196.2 — 79.5 196.2 — 79.5 196.9 — 79.5 196. | Lazard Brothers & Co Ltd. 21 Moorfelds Loedon EC29 2HT UK Phosts Captal  | 01-505-2721 Grows Te. Ford 1354.9 1322.2 Grows Te. Ford 1354.9 131.5 131 | 06/03 62/200 htth American Inc (1). St. 3<br>-6.4 3.83 https://doi.org/10.100/06/10.1000<br>-6.4 3.83 https://doi.org/10.1000/06/10.1000<br>-6.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4 4.4   | 35.61 -0.7 5.33<br>od Management<br>16.580 031.668.3724  |
| 17.8<br>15.5<br>16.4<br>10.0<br>11.8<br>13.1  | Masternat  | Poters Bay, Hers: P Bar 51122 F. 1 102 11013 294 E. 1 1745 125.77 296 G. 1745 125.77 565 187 766 60.77 565 187 188 188 188 188 188 188 188 188 188  | Artinose Fig. 469 523 +13 61 (c) (c) (d)   | UK Fred let  | 12.5 84 Feedbarch St, Lordon EC3M 48Y 4.30 Seedal Tree   | +0.3 0.90 Peg High lac. 110<br>Peg Europe Acc 112  | 9 18.1 -1.1 5.2<br>9 181 -1.1 5.2<br>1 12.7 +1.5 1.5<br>1 12.7 +1.5 1.5<br>1 12.7 +1.5 1.5<br>1 12.7 +1.5 1.5<br>1 12.9 -0.4 1.2<br>8 17.4 +1.0 1.2<br>7 12.4 +1.0 1.2   |
| 9.8<br>9.8                                    | (0749) 9299. Dealing (0793) 610366 1 Ohrmor's figure of the formation of t | 77.1 28.4ml -13.2 277 A 10.7 5  | SERVED OF U1-623 17(66/9806  | West Nedworks  | 5.3 April Group 13.3 95.7<br>25.1 Jugas Group 1.5 1.1 65.4<br>0.90 European Screet 1.59.3 64.0<br>1.10 Paging Group 1.52.9 15.3 57.1<br>0.90 Paging Group 1.52.9 15.4<br>0.90 Practical lecture Units 25.4<br>4.00 Practical Accord. Units 34.7 100.5  | G1-236 3805 Peg Lerror Int   | net Ltd<br>284 01-538-6011<br>7 75-7 1 031<br>9 113-5 -0-5 02-4  |
| 1.4<br>-<br>9.0<br>5.1                        | Egisty insolver Treats. 1193.7 144.5sci -1.1 4.92 Looper Leading Treats. 1194.4 159.6 -0.9 5 49 49 Box 52 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  | 1885   Mangs, EC3A (1.621 00)1   G<br>  1.  | red led 1st  | Legal & General (Unit Tst., Ringer S Raylotch Rd, Bernwood E (1940) Dh. 1951.5 279.7 (2010) No. 1951.5 279.7 (2010) No. 1951.5 279.7 (2010) No. 1951.5 279.7 (2010) No. 1951.5 | 1277 23434 886 Select Geod Acc. 46.2 94.3<br>-2.77 2.38 886 Select Jecone 48.1 51.4<br>-4.4 238 886 Select Jecone 48.1 51.4<br>-0.4 515<br>-0.4 515<br>-0.4 515<br>-0.4 515  | 9481 710501 European Income 38.4 European Income 39.7  | 2 3817 -0.3 6 %<br>904 -0.3 5 40<br>4 11811 -0.7 6.00<br>4 20.4 -0.7 0.00<br>4 1787 -1.0 415   |
| 1.9<br>6.3<br>3.7<br>8.4<br>6.3<br>9.9<br>2.6 | Specialist Trusts Ager Valer 191. — 222.2 Ager Valer 191. — 222.2 Ager Valer 191. — 222.2 Ager Valer 191. — 222.2 Ager Valer 191. — 237.4 Ager Valer 1 | of Fig. of Church of England; of Fig. of Church of England; t, Lordon EC2Y SAQ 01-580 1815 44 1375 4.20 0 143.05 4.20 0   |  | 20 Coptist Ave. Landon EC2R 7.JS   | -0.1 1.00 Accom Units  | -10 284 Standard Life Trest &  | Agent. Ltd   |
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|   | Finance & Propty (c) 63.9 68.3 +0.2 2.19 Janua Growth  | 11.5   12.5   2.  | refer Lights Gent?   | (I. American A. Gen  | -0.1 0.02 Providence Capital Fd. Mgrs. Ltd<br>-0.1 0.97 Providence Capital Fd. Mgrs. Ltd<br>-0.1 0.97 30 Usbridge Read, London W12 8PG   | -0.9 1.7 (Accord. Units)   | s 178.4l —   |
|   | Accompletes   126.60   280.00   280.01   280.0   | #818 137 677 +0.5 0.70 67<br>1982 1882 1 -10 539 67<br>1850 17554 -0.2 147 81   | ranville Unit Tst Magust Ltd  ranvil | Do (Account) 1996 204.9  Local Authorities' Michael Invest. 3  Zecal Senat I what FCZY 540   | +0.51 U.VI. Nurdi American Inc   | 1.30 Empt Tu 5774 40.7 053 North America 573 40.7 053 Fe East 831 40.2 153 Wortherle Band 670 40.2 153 Emptes 671 40.4 251 40.4 251 40.4 405 Sem Life Trust Mount.   | 5 401.5 (c) 2.50<br>60.9 (c) 1.11<br>88.3 (c)<br>92.1 (c) 6.79<br>90.1 (c) 1.92  |
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| Wardley Unit Trest Managers Ltd (a) Camen Assurance Ltd. Continued   | Financial Times Monday July 28 1986  Provident Mutual Life Asse. Asse. Witness Rd, Hitchin, Herts SE4 GLP 0438 799000  Managed Ord 1914 049 0438 799000  Managed Ord 1914 049 0438 799000  Managed Ord 1914 049 0438 0438 0458 0458 0458 0458 0458 0458 0458 045   |
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| Send Co. 76  | Carry Pen. Fet.   100.8   10   |
| Marrier   Asset Management   Ltd   (a) (c) (g)   19.2   23.6   40.3   19.2      | Additional Control of Control o   |
| Witten Links Ventury   | - Previncial Life Assurance Co Ltd UK Egely 243 3100 -12 - 22 Bishapspate, Lordon EC2 01-20 4533 American Persion 2401 5106 +0.8 - 22 Bishapspate, Lordon EC2 01-20 4533 American Persion 2401 5106 +0.8 - 20 - 20 5106 5106 5106 5106 5106 5106 5106 510  |
| Window Treet Many 144  | Desire Set   Control   C   |
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| Control   Column      |  |
| Particular Food   1713   1724   172   | - Projecty Pets. Acc. 183.4 193.1 - Egulty Pets. 92.0 10.1 - Pets Inc. Pets. Acc. 2.5.5 27.0 4.0.1 - Pets Inc. Pets Inc. 2.5.5 27.0 4.0.1 - Pets Inc. 2.5.5 27.0  |
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|  | Coli Food July 22  |
| Aging Life insurance Co Life  Aging  | Pers Carl Muley 25 — No. 1 193.3 — Pers Carl Muley 25 — No. 1 193.3 193.4 + 0.1 — Pers Property — 1193.0 193.2 + 0.1 — Pers Property — 1193.0 193.2 + 0.1 — Pers Property — 1193.0 193.2 + 0.1 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.4 — 1.4 — Pers Property — 1193.0 193.0 193.4 — 1.4 — Pers Property — 1193.0 193.0 193.4 — 1.4 — Pers Property — 1193.0 193.0 193.4 — 1.4 — Pers Property — 1193.0 193.0 193.4 — 1.4 — Pers Property — 1193.0 193.0 193.4 — 1.4 — Pers Property — 1193.0 193.0 193.4 — 1.4 — Pers Property — 1193.0 193.0 193.4 — 1.4 — 1.4 — Pers Property — 1193.0 193.0 193.4 — 1.4 |
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| Pos. Nortgage Cos  | Appa Service   46.8   190.0   -0.5   Da. Ord   1977.1   12.8   -1.7     Print Japan   192.9   19.4   -1.8     Print Japan   192.9   19.4   -1.8     Print Harris Assertica   51.1   55.3   -1.8     Print Harris Assertica   51.1   55.3   -1.8     Print Service Oct   54.5     Print    |
| Appendent   Appe   | American Inc. #8.6 \$10.00 -0.1 in the Pol Carb Sety 25 1728.2 187.6 +0.2 - Ans Sety Let's 157.9 127.4 -0.5 Early Fred 250.2 187.6 +0.2 - An Sety Let's 157.9 127.4 -0.5 Early Fred 25.5 279.3 -2.6 Commodity 151.1 64.6 -0.7 Araperty Fred 26.3 279.3 -2.6 Edwa Inc 1519.5 125.7 -0.1 intervalional Fred 26.3 279.3 -0.3 Par Sety 152.7 130.3 +2.3 Fland Inc. Fred 170.1 270.3 -1.5 Par Sety 150.9 270.9 +1.3 Inter Sety Fel 173.9 110.9 +0.1 250.4 6.6 250.4 250.   |
| Proof of the Company   10   10   10   10   10   10   10   1  | Control   1821   1917   - Pent Minnel File Ord   224.4   277.2   - 10  |
| Managed Act   Mile      | Section   Sect   |
| Barclays Life Asser. Co Ltd.  For East Costs   | Anterior   |
| Property Account   Property   P   | 100 100 100 100 100 100 100 100 100 100  |
| Property Field   1973   1974   | Capital Growth   |
| 132.6   132.   | Frequency   State   176.6   13.2   0.4   |
| For prices of Indigs Units; place 8) 53.6 55.6 Earlies and Co. 17.4 9 18.1 1.4 4.5 Managed for 17.2 9.4 1.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7  | American Consell. (201 - |
| Comparison   Com   | Edit branch 975 1024 -0.7   Identification   Identificati |
| Per   196,15   196,16   196,   | Managed   177.4   192.6  |
| New York   1964   1965   196   | John State   1524   1624   1625   1627   1624   1627   1   |
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| Canada Life Grapp   19.5   1   | South Yorks Hangs   1722   28.7  |
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|  | Dept Chair   Feb.   1973   1973   1974   1975   1   |
| Managed   111   117   -0.9   Pers Fired ins Acc.   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1   117   100.1     | Special Content Fig.   Sig.   Sec.    |
| - 1322 1372 — Ресу, Sparel (Dep F4 — 156,4 1643 — 1.01 —   | 1507 +0.7 - 199 +0.7 -   |
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| Financial Times Monday July 28 1986 Shandia Life Assurance to List—Caut UK Provident   |  | 23   |
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| Records (Jacobs 1) 127 7 194 d -1.d History (Jacobs 3), Salebury SPJ (Shi 1772 2) 304 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | INSURANCE, OVERSEAS & MONEY FUNDS  | J. Menry Schroder Wagg & Co Ltd  120 Cheapset, London EC2  120 Cheapset, London EC2  121 Cheapset, London EC2  121 Cheapset, London EC2  121 Cheapset, London EC2  122 Cheapset, London EC2  123 Cheapset, London EC2  123 Cheapset, London EC2  124 Cheapset, London EC2  125 Cheapset, London EC2  125 Cheapset, London EC2  125 Cheapset, London EC2  127 Cheapset, London EC2  127 Cheapset, London EC2  127 Cheapset, London EC2  127 Cheapset, London EC2  127 Cheapset, London EC2  127 Cheapset, London EC2  127 Cheapset, London EC2  128 Cheapse |
| Coll   Prof.   Pas.   Prof.  | Brown Shipley Fund Migat (CI) Ltd Foreign & Colonial Management Ltd Hill Samuel Investment Migut Intl SA  NEL Britantia Int As Ltd  Next House, Nicol S, Daugha, Ind  Serving Box 252 1 Febr. 91250 1 1032 1 1031 1 1   | Schroder Flu. Mgsst. Intl. Limited horn America Face 511.20 11.01 -0.04  |
| International   Internationa   | A Sent Torn USS   St. 105   Senten Revised   St. 105   Senten Revised  | Hosp Keep Ford   |
| Asteriou Sensitive Co. 1993 114 0 - 0.4 Service Fd (c) 1945 1648 - 0.4 Asserting Receivery 1973 115 0 Evenous Fd (r) 1985 1648 - 0.4 Asserting Receivery 1973 115 0 Evenous Fd (r) 1986 2.5 Standard Conventioner Co. 1972 144.6 - 0.3 Vandruge Persolan Limited   | GAL levestments (ToM) Ltd  | Appendix   File   1.0   1.5    |
| High Content   102.0   197.77   102.4   102.5   102.   | Capital international  Section 1   | Dutstinester   Duts   |
| Ansertade Growth Paul 100:11  Evropesia Growth 19:11 63.7 +0.8   Windsor Lift Assert Co Ltd    For Last Growth 10:15 105:14 +0.7   Royal Albert House, Sheet St, Windsor Scotter    For Last Growth 20:2 97.0 +0.1   Investor Units 20:3 27.4 -1.4    Ind Grossing Cot. 97.4 95.2   September 10:15 20:3 4.9 -2.4    Ind Growth 95.1 105.11 +0.5   Annua Poul Units 20:7.2 25.3 -2.4    For Growth 95.1 105.11 +0.5   Annua Poul Units 20:7.2 49.3 -2.5    For Growth 10:15   For Growth 10:15   Annua Poul Units 20:7.2 49.3    For Growth 10:15   For Growth 10:15   Annua Poul Units 20:7.2 49.3    For Growth 10:15   For Growth 10:15   Annua Poul Units 20:7.2    For Growth 10:15   For Growth 10:15    For Growth 10   | 254 Broad St, St Heber, Jersey, Cl. C54 78896  CA Date in Fig. 510.25: 1   | 120    |
| 150 Engress Growth 1815 19724 +62 Fe East fa 2113 2224 +677 1758 Engris Court 1815 19724 -625 Fe East fa 2113 2224 +677 1758 Engris Court 1815 - 625 Fe East fa 2113 2224 +677 1758 Engris Court 1915 1915 - 625 Fe East fa 2113 2224 +677 1758 Engris Court 1915 1915 1915 1915 1915 1915 1915 191  | Euric Global ton Fel. 1574.R2 70.601 +1.21 0.57 PC Box HM1735, Hamilton, Bermach 804 295 7447 Valuation Countries Francis 16.25 10.627  | PO Sex 330, St better, Jersey 0534 34373 World-Fast NAV 310.11  Sept. Class Funds 10.10 -0.00 World Wide Errowth Managements to American 50.14 9.74 -0.00 10e. Sendents Royal, Latensburg 10.10 10e. Sendents Royal, Latensburg 10.10 11.86 -0.22 Worldwide Orb Fd. 310.04 -1.00 -0.20 10e. Adv. 10. Adv. 10. 40.01 -0.00 10e. Adv. 10. 40.01 -0.00 10e. Adv. 10. 40.01 10e. A |
| 158 Selected Opp 137 2 144.4 -0.1 - Gr 2111 222 +0.1 -   | Fr3.7  | New Class   19172   10.22   10.25   10.26   10.26   10.26   10.27      |
| Fidelty Manages Fig. 4 101.4 +0.1 - FIGARABLES EN SERVICES Fradilippe Managed John 172.8 -0.4 - Gartanev Managed John 172.8 -0.4 - Gartanev Managed John 172.8 -0.4 - Ashville Insurance Brokers Ltd Hendrich Managed John 182.2 - Ashville Finci Mage Ltd Growthesay Managed John 182.2 - Ashville Finci Mage Ltd Growthesay Managed John 182.2 - John   | Serving  | Scribiguour Kemp-See Magnet, Jersey 10 Datring Cross, St Heller, Jersey 10 St Carring Cross, St Heller, Jersey 10 St Carring Cross, St Heller, Jersey 10 St Carring Cross, St Heller, Jersey 10 St Depart Food St Jersey 10 St Depart Food St Jersey 10 Jersey 1 |
| Standard Life Assistance Company   Standard Life  | Description  | Sentry Assurance International Ltd Sentry Assurance International Ltd The Charities Deposit Francis For Enth-Price Piece UK 0327 41454 Deposit Francis 950 07-589 1215 Deposit |
| International  | Calcars Fed John   16,70h     Stocking Denote For   11,022     15,00h   | CC4   MAY Worn 14,948.77, 1DR value USSIG.RILLS.77   Chapted   True      |
| Person Property 270.2 200.8 -0.3 -0.3 -0.1 -0.6 Miler Sq. Loudes, ECSA SAN 01-283 2500 -0.2 -0.3 -0.1 -0.6 Miler Sq. Loudes, ECSA SAN 01-283 2500 -0.2 -0.3 -0.1 -0.6 Miler Sq. Loudes, ECSA SAN 01-283 2500 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.2 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3 -0.3  |  |  |
| Index Linked Food  | Certaint Solitise   Control Hosterry, Location Board For Location Solitise   Control Hosterry, Location Board For Location Solitise   Control Hosterry, Location Board For Location Solitise   Control Hosterry, Location Board For Location Bo   | Acom Boul Fd. — \$4.32 6.58  |
| Popular Funds   1985   251.11 (c)   PRR Fund Management Ltd.   Nanager   1985   270.5 (c)   Pres Band   1988   198   | Investa  | 119 Carreer St   |
| Sear Life of Canada (UK) Ltds 2.3.4 Cockuper St, SWIY 58H Regist Leaf Plans Crawa Accuser 407.1  COVERED CE A C  | Destruct Management (Germany) List 6rd. Then 1947 4925 20 Engineering S.A. Resident S.   |  |
| Court Accessed   19.7   203.5  | 14 Rec Aldringen, Lucembourg  14 Rec Aldringen, Lucembourg  15 17:29   -0.01   Gertrast SA  27 rat de la Cite, 1211 George, Switzerband  28 rat de la Cite, 1211 George, Switzerband  Celfa, Group  16 Sept 18 - 18 - 18 - 18 - 18 - 18 - 18 - 18  | 935 Sameged   182 716   11077 + 0,000   12.75   11077 + 0,000   12.75   11077 + 0,000   12.75   11077 + 0,000   12.75   110.75   12.75   110.75   12   |
| Pensiter Plant   Delice & 25.20  | Depth spin   100   | Strategic Metal Trust Manys. Ltd   Strategic Metal Trust Manys. Ltd   48 Atrol Street, Dougles, IoH   0624 26866   Strategic Metal Tr. 150.677   6.6661   Strategic Metal Tr. 150.677   6.6661   Stranghold Intl Mingt Ltd   48 Atrol Street, Dougles, IoH   50 Atrol Street, Dougles, IoH   50 Atrol Street, Dougles, IoH   624 20845   Stranghold Art Geo Ph. 101.57   42 301   Stranghold Art Geo Ph. 101.57   Stranghold Art Geo Ph. 101.57   42 301   Stranghold Art Geo Ph. 101.57   Strang   |
| Pros. Noting Fel Acc. 1110.5 115.7 Pros. Noting Fel Acc. 110.5 115.7 Pros. Noting Fel Acc. 110.5 115.9 Pros. Not. Fel Acc. 110.5 116.9 Absry SF4. (C) 1533.76 34.75 40.98 GB7 Pros. Not. Fel Acc. 110.5 114.9 Absry SF4. (C) 153.76 Absry SF4. (C)   | 77 Loodon Wall, London, EC2 97.60 GAM France STr   | PD Bot 315, St Heller, Jersey CS34-70152 Co-sperative Bank Chemic & Save   |
| Ford literat Acc. 2128 229.0 +0.6 hspits Care. \$15.59 16.01 8.25 https://disease.doi.org/10.109 +0.1 19.9   | Working Securities Limited Math July 36.534 SAM Tytes S106.07 +1.03 - S106.07  | 198 dy Easty Fd   197.0   144.3ml   3.11   Dartington, Totole, Deros T09.6xE   0803 962271     198 dy expect point   103.2   103.5     |
| 10.5 Collar Acc.   10.5   10.6   40.2   10.5 Collar Acc.   10.5 Coll   | Second   S   | 01-623 2494 Legal & General (Money Megrs) Ltd 355 Easton Road, NW1 346 01-389 3211  Target international Management Ltd Holland Do Acc 194, 32 Roller, Jersy. 0534-7295   Loyde Rank 91 C  |
| Pers. Manager Acc. 423.4 445.7 +40.6 - A.D.1. With Arms Gibbs.), 20, 425.8 4,457 - 40.6 - 40.0 18.4 187.2 - A.D.1. Site Fast for Stab 30 0.678 - 40.0 18.4 187.2 - A.D.1. Site Fast for Stab 30 0.678 - 40.0 18.4 187.2 - 40.0 18.4  | Bask of Bernands Boliding, Bernands 809 295 4000 PO Box 200, S Peter Port, Guerrosey, CT Onto 2626 Petrol National Research Treat Co Ltd America Treat Co Ltd Control Research Treat Co Lt   | Target Investment Management Limited  Target lies Continues Int. Apening. Bis. 10296 5941  Target lies Continues Int. Apening. Bis. 10296 5941  Target lies Continues Int. Apening. Bis. 10296 5941  Target lies Continues Int. 10296 5941  Thornton Management Lies.  M. & G/Kleinwort Benson   |
| Pers. Jagan Acc. 129.3 251.6 +6.1 - Yes Bond: May 24   | Next challeng day August 13 1986   PO Box 273, 53 Peter Port,   Security   1,125   1,255   1   | 6 Authorise Perul 511.75 12.5525 -0.002   Midiand Sank pic 57.42 20999 Est Saj5 -0.004   Midiand Sank pic 57.42 20999 Est Saj5 -0.005 +0.255 +0.255 -0.005 +0.255 + |
| Swirz Life Penalons Ltd   Year   Ye   | Do. Dist.   Size State   -0.0221   Serving face   21.0825   -0.0036   Size State   -0.0037   Size State   -0.003   | Tokyo Pacific Holdings MV  Intime Management Co NV, Coracao  MAY per siare \$197.79  Tekyo Pacific Hidgs. (Sepheard) HV  Intime Management Co NV, Coracao  MAY Per siare \$197.79  Tekyo Pacific Hidgs. (Sepheard) HV  Intime Management Co NV, Coracao  Ethilogo and short \$197.97  Ethilogo and short \$197.97  Tekyo Pacific Hidgs. (Sepheard) HV  |
| Mineral   CYNEA   24 All   | Column   C   | Top Brand Fund International  Manager: P0 for 190, St Netler, Jersey. US34 74715  Top Grand Find NAV S2.07  Top Grand Find NAV S2.07  Tymini Guardian Managers (Jersey) Ltd   Tymini Guardian Managers (Jersey |
| Honry Fund 115.5 122.1 and the property of the   | Line    | American. 244.5 264.8 1.05 26.4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5  |
| Target, Hrosse, Gatekonte Road, Ayletkory, Backs Ayletkory (0296) 5941. Techand Coron. 62.6.8 9.21  Managed 175.3 795.1 -2.7 Fac Back Ford. 526.2 91.67  Property 295.3 24.8 40.2 The Bangkinsk Formed 196.2 91.67  Part let. 116.9 175.9 40.3 The Bangkinsk Formed 3 7 7 mst Ltd (1my Advisors)  but Envir 202.2 315.2 40.2 30 Salom Road, Banginsk Trailinsk 196.21  Banginsk Frist Int Advisors 196.21  MAY Jan 25. Banginsk Toussill, 500.72   | Victory Nec. Prospect Not. Douglet, Iold   063-7877   Sent Year.   1800   273   Lloyde Bank Geneva Serturational   0001-157   1900  | Ucora, danger   1712   798.2   413   413.4   410   4   |
| Manuscri Pruserty   1641   170.1   -0.5     Rauk of Assertica Informational SA   7 strontosy   17.8   92.5   -0.5   25   Rauk of Assertica Informational SA   7 strontosy   17.8   92.5   -0.5   25   Rauk of Assertica Informational SA   7 strontosy   17.8   92.5   -0.5   25   Rauk of Assertica Informational SA   17.0   17.   | Serving Person   1915   | Albert Husse, St Peter Port, Gaerney Delti 27066 Money Acc   |
| Section   Sect   | For Extend Equity   03.797   0355 +10.022   Jugos & Pacific   04.124   +2.02   1.0 Destrictor's   0.000   0.00   | Dec   1.605    |
| Secretary   E.9   Secretary  | Comparison of  | Derring Depose 12:51 1452  |
| Price center are for Accompany Ltd Price Spring Fond Managers (Generally 12 Constructors & Tread Bill 31 W 10202 271111   Bring Correct Park Ltd St. 12 Constructors & Tread Bill 31 W 10202 271111   Bring Correct Park Ltd St. 12 House Correct Park   | Ermitage Management Cayman 1.1d   Series 10   Series 1   | DS. 5.700 6.730 % (Shown at last colorou) afters for all beyone excesses, b. 5.25.5 a Officer prince between all expenses, b. Today's prices. Show for prince 2. 125.9 12.6 a Yield based on offer prince 6. Expenses, a Today's prices. Co. 5. 1.500 1.500 b todays price. b Distribution free of UK tibes. Show the manufacture of the control |
| Transposered Late 40,525   Medway 812348   Saring   International Group   1-588 6423   14.000   Units   12.74   18.53   1901   Ediborgs Tover, Horp Knop   01-588 6423   14.000   Units   12.04   -0.45   0.10   14.000   | Strike income Feat.   11.07   1.198   10.02   1.07.0  | Typical-Guardian Magt Ltd # burght through suggests a Prenous day's price.  1 Guerney grass & Suspended. 4 Vield before Jessey   |
| Apprilia   \$2.7.7   \$20.9   1.8   Pacific int Fr.   \$14.90   \$1.73   0.17   \$15.90   \$1.73   0.17   \$15.90   \$1.73   0.17   \$15.90   \$1.73   0.17   \$15.90   \$1.73   0.17   \$15.90   \$1.73   0.17   \$15.90   \$1.73   0.17   \$15.90   \$1.73   0.17   \$15.90   \$15.90   \$1.73   0.17   \$15.90   \$15.9 | S.E. Europe Consignosts SA  Serving State. 15216  22.17  9 Averue de la Liberte, Luterational  US 5 States 157.36  17.37  | TRADITIONAL OPTIONS  14 Per   Traditional OPTIONS  3-month call rates  |
| Pens. Eurity Acc. 442.0 Ab5.9 -7.8 ARRAGE day 7 1578.20 St. 15 - Pens. Eurity Acc. 452.1 674.6 -2.5 COUNT 1-by 7 184.756 3.0 COUNT 1-by 7 184.756  | 37 Rue Roter Dave, Licenthours 764 47971 Europe Pressys Fed. Serving States 10.096 10.0964 Europe Pressys Fed. East 10.07 140.03 10.096 10.0964 Europe Pressys Fed. East 10.07 140.03 10.096 10.0964 Europe Ressys Fed. East 10.07 150.096 10.0964 10.096 10.0964 10.096 10.0964 10.096 10.0964 10.096 10.0964 10.096 10.0964 10.096 10.0964 10.096 10.0964 10   | 3 Wingmare Place, Londox W1.  Other  |
| Perputual Active   | Fidelity International 96100 Santa \$9100 S | ### 1005   Barclays   45   Risk Org Ord   26   ### U.S. Treasury Securities Fand Ltd   40   Rank Org Ord   26   ### Rose of Section   40   Rank Org Ord   26   ### Rose of Reed Intel   75   | Survey of Oceans   | Application   13.25   13.07   -0.07   13.07   -0.07   13.07   -0.07  | 2 tanggraphic Are, Undon   01-638 6111   Cadhar Drd   28   United Intest. Fined   Shift 73.10f 40.10f   Cadharys   17   United Intest. Shift 73.10f 40.10f   Cadharys   17   United Intest.   15   United Intest.   15   United Intest.   18   U   |
| 18 Caryinge Road, Bristot  18 Caryinge Road, Bristot  19 Caryinge Road, Bri   | Section   Sect   | United Fund Managers Ltd See Electric 17 Brit Land 12 Brit Land 15 Sampler See State 18 State |
| 2007 Feb. 11.4 22.5 - 1.0 - USB Ford?!   | Financing organic 1.5 Copyright Act, ECZ 07-638 5058 September 1.5 Septe   | The Brazil Fuel 32 All Services   12 All Service |
| Card Deposits  | Forms   Securities   Management   Ltd   PO Box 887, Grang Capture   Securities   Management   Ltd   Securities   Management   Ltd   PO Box 887, Grang Capture   Securities   Management   Ltd   Securities   Ltd   Securitie   | 20, Boalegard Ensemble Servals, Lazembourg  20, Boalegard Ensemble Servals, Lazembourg  32, Boalegard Ensemble Servals, Lazembourg  33, Boalegard Ensemble Servals, Lazembourg  34, Boalegard Ensemble Servals, Lazembourg  35, Boalegard Ensemble Servals, Lazembourg  36, Boalegard Ensemble Servals, Lazembourg  37, Boalegard Ensemble Servals, Lazembourg  38, Boalegard Ensemble Servals, Lazembourg  38, Boalegard Ensemble Servals, Lazembourg  39, Boalegard Ensemble Servals, Lazembourg  30, Boalegard Ensemble Servals, Lazembourg  31, Boalegard Ensemble Servals, Lazembourg  32, Charternal II 44  Premier 31, Boalegard Ensemble Servals, Lazembourg  32, Charternal II 49  Premier 31, Boalegard Ensemble Servals, Lazembourg  32, Charternal II 49  Premier 31, Boalegard Ensemble Servals, Lazembourg  32, Charternal II 49  Premier 31, Boalegard Ensemble Servals, Lazembourg  32, Charternal II 49  Premier 31, Boalegard Ensemble Servals  32, Charternal II 49  Premier 31, Boalegard Ensemble Servals  33, Boalegard Ensemble Servals  34, Boalegard Ensemble Servals  35, Boalegard Ensemble Servals  36, Boalegard Ensemble Servals  37, Boalegard Ensemble Servals  37, Boalegard  |
|  | 11 3M  | toom find Juny 21  |

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| 24<br>BRITISH FUNDS  | AMERICANS—Cont.  |  | ENGINEERING—Continued  | Monday July 28 1986  |
|--|--|--|--|--|
| Shorts   Price   Lest   Tidd   | Distances   Proce   Last   Dar   Ta  | BUILDING, TIMBER, ROADS—Cont DRAPERY & STORES—Cont.  | Lan. millionimi principi and and latter at 1 5 at 100 hards  | Sheet  |
| 60e  | F AV, Au AcColance P 51. 281/224 51.36 3.5  Mr. Ju Sc De (Kot Iners S1. 25 17/34) 51.36 3.5  Fe Mr. Au NicCourt Interos Corn 51. 42.6  Fig. Appropriate Data Sense. 50 24.51.2 51.003 28.  | Paid   Stack   Price   rel   Bet   C'er   Gr's   Price   Price   rel   Bet   C'er   Gr's   Price   Price   rel   Bet   C'er   Gr's   Price   rel   Bet   Price   rel   Bet   C'er   Gr's   Price   rel   Bet   Price   Rel   | 0 + Mar Junifferent Ltd. 110   | Sec. Exercises 382 1112 414 6 4 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8  |
| 140c 142mtress 92cc C 158 101134 10.34 9.77 11m 11m 12m 12m 12m 12m 12m 12m 12m 12m  | Duffine Street SD 1.   739   | Lily   DCL Corsum Group   520   B25   17 0   28   4.7 9.5   May   Norty 6 5 Stores 50  | 3 - Feb Secretario Col. 3 - 13.0 o 3.3 3.3 1710.7 ian. John 1812.4 ian Acquisition 10 in 13.5 c 3.0 3.3 3.7 10.7 ian. John 1912.5 ian John 191 | on Namer 11  |
| 16th   1Aug/Each   10th   1969   100   105   10   100   105   10   105   | Ramourt Feb.   231,275   52,04   5.9   | February   Fairbrar 100   164   30.5   1.79   2.8   3.9   3.4   0   3.00   1.79   3.00   1.44   7.94   0   3.00   1.79   3.7   3.00   1.79   3.7   3.00   1.79   3.7   3.00   1.79   3.7   3.7   3.00   1.79   3.7   3   | Pet   Asp(Cobes (A) 200  | ref (Wm.) F1. 300 2.5 11.23 2.5 3.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2  |
| 8 Nov 8 Mary Tess. Joe 1990. 1894.13.2 11.49 9.57 15 Der: 15 Lem Trees Flact 1987-90:: 977-95 847 25 Apr 25 Oct 178-2 10pct 1990 100:: 101:: 123.3 9.63 8.97 101:: 101:: 104:: 105:: 1990 100:: 101:: 103:: 104:: 105:: 106::  | Agric   Octobers Elect. \$1 \( \text{in} \)  | Sury   Sanifereror (MLI 10p   377   125   157   54   571   571   | 15.7   May DecCustomits 78'94  | 206   14   |
| Five to Fifteen Years  25Apr 25OctEach 11cc1991 22Jly 22Janfress 12 Lpc 1992tt 113-116-6 11.20 9.58 21Apr 21Feffress 10sc 1992tt 113-116-5 11.20 9.58 21Apr 21Feffress 10sc 1992tt 1992tt 1060 9.58  | Mar Jun S   Dillard Corps St.1.5   23   13.5   32.80     4.3   4.40     3.4   4.5     3.4   4.5     3.4   4.5     3.4   4.5     3.4  | Oct.         Mar Howard Start 10p         36         10.2         61.4         1.5         51.37         Sept.         Moriface Call         200         R8.0         1.85         — 1.3           Dec.         Mary Boxord Storee         158         14.4         96.8         2.5         4.012.6         Agril         4.4mer Elect Comp 5p.         1.33         27.1         1.5         4.3           Mar.         Oct Larvet U.)         430         16.9         217.5         4         Agril         Nov Sensor and 5p.         224         10.19 20.9         0.2           April         Habystan         48         11.3         0.25         3.9         0.737.2         2         40.00         2.00         2.00         0.00         2.00         0.00  | Feb   Argin Ellion   Historia   198   16.6   75   2.0   5.6   12.4   Nov   Jame Bill     3   | Strenot 159 592 5.4 Add 2.2 1445.6 for U.1 50a 590 51.2 tab.57 2.5 4.3 12.6 for U.1 10a 115 14.9 12.2 tab.57 2.5 4.3 12.6 for U.1 10a 115 14.9 12.2 tab.57 2.5 4.3 13.6 for U.1 10a 115 14.9 12.2 12.3 12.3 12.9 for U.1 10a 115 14.9 12.1 5.4 4.8 \$\phi\$ ask (P) Hidgs. 200 24.2 11.62 6.5 1.0 21.9 ask Arrow 2.5 1.0 21.9 1.0 2.6 1.0 21.9 12.3 1.0 2.3 12.5 12.3 1.0 2.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3   |
| 150c 15aprires 16x 1935; 1972  | Mar And S   Pilo terit S   1.5   880g   15.5   65.5   4.9     Mar Ans S   Pilo cockeed Grow S   31.4   12.5   51.00   2.2     Mar Ans S   Pilo cockeed Grow S   24.5   2.6   51.90   6.9     Mar Ans S   Pilo cockeed Grow S   24.5   2.6   7.5   51.00   4.1     Mar Ans S   Pilo Cockeed S   24.5   24.5   2.5   40.5   2.5     Mar Ans S   Pilo cockeed S   24.5   24.5   25.5   40.5   2.5     Mar Ans S   Pilo cockeed S   24.5   24.5   24.5     Mar Ans S   Pilo cockeed S   24.5   24.5     Mar Ans S   Pilo cockeed Grow S   24.5     Mar Ans S  | Agr   Colisionatores Ps. 10n   108   113   427   21   56122   3dy   Declarates Comp 10n   50   9.12   0.35   1.0   | Jan   Aug   CE   Intril. 20p   103   30.6   5.85   6.81   6   April   68   | Section   Toys   109.2   109.3   32.3   35.3   35.3   35.3   109.5     |
| 17May 17Nov1ress Sec 1940### 971-910.4 923 9.42 924 925 925 925 925 925 925 925 925 925 925  | Feb My An Millernik Lynch S1   | July   Febyl-Lin & Chydeside   120   16.5   5.6   2.0   6.6   10.7   Rot.   Respirator test as to the control of the control   | 1333   Feb.   Judy Stall (Marthers)   192   12.5   4.5   3.1   4.5   10.2   Judy   Nov. Be     193   10.2   41.00   16.   7.5   11.8   Judy   0.0     194   10.2   41.00   16.   7.5   11.8   Judy   0.0     194   10.2   41.00   16.   7.5   11.8   Judy   0.0     194   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195   195   195     195   195   195   195   195   195   195   195   195   195   195     195    | mmer 20p. 322 12.5 18 55/143 seyren 10p. 47 2112 61.5 6 4.6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  |
| 1.55cp   1   | Fe Mr Au Noll'all Coro 25: 35 — 38c — 10. Mar Jun S DiPennyal 833. 37 275 5220 — 41 F Aux Au MPhitshryt — 501,28.4 51.72 — 23. Jy Oc. Jan Andrusker Class 55 — 374,18.6 51.49 — 12. Mr Jun Aor Jin O'Ren NY Coron 55 — 335,48.4 81.09 — 24.  | Oct MaryNaries   112   10.3   3.75   13   4.7122.5   138   12.6   10.5   | 115.5   1437   Oct.   1841   Oct.   1841   Oct.   1841   Oct.     | rit, Ist, Alevans I  |
| 274er 270-cilizat 15g-1997 133-27-31 123 99-21 193-21 193-21 123 99-21 194-194 194-194 100-4 2-6 98-2 98-2 194-2 2-11-12 98-2 194-2 2-2 | Mar Jan S DiRochwell Inst. \$1   | Jan. Astylikowiem (J)  | August   Light V. H.J.   Sept V. H   | mm & Tawne   |
| 18 1/12 10.38 9.44 1980s 1981a 1982, 1979; 1999 1884, 1845 2214sy 228os Comersion 104sec 1999 1884, 1845 35cm 348a-Comersion 90x 2000 444; 1984 9.31 9.45 144an 144a/1748: 130x 2000 1845 26Feb 265aug/1ress 10px 2001 1005aug/21.7 9.53 9.50  | Ma Ju Se DecTRiv Inc. S1 4 67 6.5 \$3.00 - 3.1<br>Str Ju Sp Del Temen 55 25 13.5 \$3.04 - 8.3<br>June Decl do Illocut Sk. 19.5 25 13.5 \$3.04 - 8.3<br>June Decl do Illocut Sk. 19.5 25 25 25 25 20.0 - 9.9<br>Mir Ju Se Del Teme Inc. \$1 56 26.2 \$3.00 - 1.2<br>Ju An Ju Od Texas \$0.334; 34-20.0 34 36 - 1.7  | Jame   Dec. RMC   642   284   14.0   3.1   3.1   14.9   Jamany   Do. 7 jpc Cm CnrPf   196   10.12   8     Apr.   Dec. Ratine lods, 10p   75   242   140.82   05   15       May   Dec/ Ramas   99   14.4   62.5   1.2   8.2   14.1     Jam.   Gez. Redland   424   9.12   11.55   62.2   3.9   13.2     Jam.   Dec.   Jame   Section   50   33.3   1.0   7.5   1.6     Jam.   Jame  | July      | /D Inc. \$0.01   |
| Over Fifteen Years   10Feh 10Aug/Comersion 94pc 2001   102nd 4.7   9.56   9.50   22Jml   22Jml   22Mr   22Jml   22Jml   22Mr   22Jml   | Ja Ap Ja OC Transmerica SI   | Jan.   | 19.7   Mar Augisteurus-Trois:  | buy Padi HSS 29 461 5 10 24 14 14 9 5500 28 5 1 1 1 2 4 1 1 1 2 4 1 1 1 1 2 4 1 1 1 1  |
| 8 Mar 8 Septifres 10x: 2003  | CANADIANS  - WAtter Energy Corp. 22p   | Just   Oct.   Tribury Group   381   2.5   86.53   2.4   4.0/12.5   3.5   4.0   2.5   3.2   4.4   12.3   3.5   4.0   2.5   3.2   4.4   12.3   3.5   4.0   2.5   3.5   4.0   2.5   3.5   4.0   2.5   3.5   4.0   2.5   3.5   4.0   2.5   3.5   4.0   2.5   3.0   3   | 22.23   Mary   Mol. (Science) Sines  | rea Light HISS 1340,223   0602 29   4.01 R.7 states int. 1800  |
| 28 Nar 20 Sep Exch.107-or 2005 1099-111-2 9-59 9-41 21 May 21 Northress 12 yes 2005-05 1245-114-4 10.03 9-55 15 May 21 Northress 2005-054 158-158 158 158 158 158 158 158 158 158 158  | Ja Ao Jai Octik (Nova Schill 755b 101.6 168 4.3 Ao Jy Oc Jai Schill 755b 101.2 20c 2.0 Ja Ao Jy Octivaca 1.2 20c 3.2 Fe My An Notan Ing St. Sz. 53b 30.6 51.08 6.2 July Jan Can Parific [ 721.9 306 500 3.2  | Juse   Dec. Hull Grame, Dep. 356   75   28.4   3.75   17   7.91   1.9     December Print Sc. 3p   332241.4.7   1.013.6   0.44     Max.   Ox. Vikroplatur   372   14.9   3.1   4.9   1.5     Apr.   Ox.  Ward Hidgs, 10p   222   24.2   7.25   2.6   3.615.0     Just   | 11.8   Anne   SiG AB \$450   | huse' Tech 100   91       -  |
| 28.5ep 28.4arif ress 13-pc 04-08   | July Jan Do, 4oc Deb. C190 39 16.6 5% 10.3<br>Ju. Sp. Dec. Har Wicksh Bay Menes 30 20c 1.0<br>Golden Scrotte Res 36% 20c 1.0<br>Golden Gold Milas 38% 20c 1.0<br>Wicarness Expt 3129 20c 1.0<br>Will Pacific Res. 129 20c 1.0<br>July April 10.3<br>July 10.5<br>July 10.5<br>J | April   Octiveryons Group   123ed 14.7   60.5   11.5   Octiver   Files Data Prop. 5s.   89   30.6   R1.6   4.2   2.5   | 13.4   October Samus West. 39   37   22.8   0.27   2.6   10.57; 9   July Jun. Dres   | n (J) 360 12.5 (a) 28.6 % 6 1 3.7 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| Lium 1 Decl'War Loan 31-ports 381-25-4 9.18   1 Apr 1 Oct. Cons. 31-ports Air. 589-24.2 6.43   5 Apr 5 Oct. Cons. 30: 56 Abr. 32-13.3 9.23   5 Apr 5 Oct. Cons. 1 Apr 5 Oct. Cons. 21-ports 20: 52-52-52   271-26.5 9.13   1 Apr 1 Oct. Cons. 21-ports 20: 52-52-52   271-26.5 9.13   1 Apr 1 Oct. Cons. 21-ports 20: 52-52-52   271-26.5 9.13   1 Apr 1 Oct. Cons. 21-ports 20: 52-52-52   271-26.5 9.13   1 Apr 1 Oct. Cons. 21-ports 20: 52-52-52   271-26.5 9.13   1 Apr 1 Oct. Cons. 21-ports 20: 52-52-52   271-26.5 9.13   1 Apr 1 Oct. Cons. 21-ports 20: 52-52-52   271-26.5 9.13   271-26.5 9.13   1 Apr 1 Oct. Cons. 21-ports 20: 52-52-52   271-26.5 9.13   271-26 | Ap Jy Oc. Ja Wilmers Std Cast 13-15.11 96c 3.4 1 5336 1 5 1 96c 3.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | Nor  | 14.6   Feb.   Segul les Hindes (10)   134   27.12   45   6   4.8   6   -   140.6   | an & Bowes 5p  |
| 15Mar 16Seo Do. Zoc 96 (267.9) 11947.2 3.41 3.76 5<br>24Mar 24Seo Do. 23or 91 (308.8) 203-07.2 3.50 3.75 F   | Mysicothe Eroki.   1/39  | Aprilic   Staplen lods   128   10.3   72   10   85   10.   | 10.8   Mar.   Oct   Magon Industr     25   10.2   8.5   \$6   5.2   \$6   Juz.   Dec. Dec.   | er Corp. USS1   227-22.8   88d   22   -  |
| 20Nov 20Nav   Do. 21 <sub>2</sub> 0c '09   C310.71   1005-014.4   338   3.57   23F eb 23Aug   Do. 21 <sub>2</sub> 0c '11   (294.1)   1061-221.7.1   3.31   3.49  | પણ MariAlgemene Fl.100   £1651-)1.5 (v0279-) ન   દેવી હે. ડે   | Dec   Junif Cory (Norsier) 5p.   151   29.4   O.6  | Jan.      | 20-116.6 d0.25 4.9 1.4 19.9 1.0 19.9 1. |
| ie 8 manths perior to issue. RPI for November 1965; 376.4 and for June 1966; 385.8.  INT. BANK AND O'SEAS  GOVT STERLING ISSUES  4 Jan 4 Jan 4 Jan 1010 J 10744.6   10.36; 10.27   | lec John Allied Irrs   | Max         Sentificace Group         122         242         13,22         27         37 13.8         349         Jam/Life Refrage Stop         122         143,22         27         37 13.8         349         Jam/Life Laborator         123         20         152         34,6         152         164         49,0         21         56,000         162         164         49,0         21         37 11.8         189         Octile Refrage Stop         250         14,4         12,5         20         7,0           May         Oral Riddens Int Sign         35         -         48         36         683,13         32         -         487         1,4         15,0         2,5         2,10         487         1,4         15,0         2,5         2,10         487         1,4         15,0         2,0         13,1         4,0         3,2         -         4,0         3,2         -         4,0         3,2         -         4,0         3,2         -         4,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0         3,0   | 7.1 March OcdASDA-NFI Group 136 131 -3.15 c3.0 3.314.4 — In the second of the second o | m AS NINSO 807 23.4 Q15% 7.9 6  citch Hopper 59 124,5693 1051 40 4.0  citch Clares 112,593 1051 40 4.0  citch Clares 112,593 1051 40 4.0  citch Clares 112,593 |
| 284an 284r/484xra8a 131yr 2010   | ker Apriliarcias; 61   | Dec  | 26.1 Jan Auj-BSM Fr 100  | the AB K50   |
| 29.By 290echi2 144pt 1987  | une NovCine Discount 20p   | February   Person AB #Sall)   \$17\text{a}\$2   \$0.4\text{a}\$3   \$0.0   \$0.4\text{a}\$4   \$0.0   \$0.4\text{a}\$4   \$0.0   \$0.4\text{a}\$4   \$0.0   \$0.4\text{a}\$4   \$0.7\text{a}\$6   \$0.0   \$0.4\text{a}\$4   \$0.7\text{a}\$6   \$0.0   \$0.5\text{a}\$6   \$0. | - Helensons Crisps 10o 50 3784 - 11.6 May Monifision 57.7 Apr. Oct. Berristord (S. & W.) 257 10.3 10.5 1.9 6.310.1 Jan. July Feet 15.5 Dec May Helensonsens 10o 15 - 0.8 2.3 5.610.6 June 15.5 Dec May Greensoler 10 20 28.4 0.8 2.3 5.610.6 June 15.7 July Code 1.0 Vertex 122 10.3 41.4 3.9 1.6.22.6 - Vertex 12.1 May Oct. Canbury Schwespes 16.3 10.3 5.9 1.4 5.117.8 Jan. July Phone  | as lints 44 90.9 0.5 0.9 1.6 — ea Agric, 10p. 32 2.5 1.5 2.7 6.6 7.7 es (J. H.) 126 9.12 5.0 1.3 5.7 0.7 gastroot 20p. 21 16.9 1.2 — 8.0 — 6.4 1.7 es (J. H.) 126 9.1 1.2 — 8.0 — 6.4 1.7 es (J. H.) 126 5.7 1.4 1.7 26.6  |
| 15/Jan 15/Jan 05/19c Ln 2712   | — IPFrist Parific HdgSRc. 32 3.5 (3.856.3.4 8.4 3.6 me Bec [liverand & Ristlands 2 31.2 6 5.5 7.70 10 March Gende D'! Mry 50 115 10.2 1.79 21 115 10.2 1.79 21 12   | June   Sau BPD   1000   229   775   989   13   | May   New Chester & Fargus   44   1.10   -     2.01   0  | **Chiene ACS0.5.   150   23.12*   023.6   1.7   5.5   10.7   **Into C. & W.   104   30.6   7.3   3.7   3.1   7.4   **sc   R60.10   199   23.12   190.17*   4.0   2.0   19.7   **Into 100   50   23.12   10.4   11   11   **1   30p   10   23.4   4.25   18   5.9   3.1   **Into 15   88   R3.02   2.5   4.8   11.3   |
| 15feb   15ag/61   154   1790-92  | an Septiloseph (Leo) £1  | September   Sept   | Wy Jie Se BecDart & Kraft S1.00   649-113.5 (SS1.56   2.6   Aug FebFrets   3.7   Feb-Sept Bee Corp 50   228 (27.1   15.8   19   3.6 (17.7 ) Apr. Sept. Res Corp 1   Aug FebFrets   3.8   England (J. E.) 5p   34 (4783   3.9   3.9   3.6 (17.7 ) Apr. Sept. Res Corp 1   Aug FebFrets   3.8 (17.7 ) Apr. Sept. Res Corp 2   Aug FebFrets   3.8 (17.7 ) Apr. Sept. Res Cor   | h (Thes.) I (Ip  |
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| 15 June 9 Decto 95pc 18.587  | ar John ScarFin 10p 76 30.6 72.4 2.0 4.414.4 10 00 00 00 00 00 00 00 00 00 00 00 00  | April 0ci Court 4 226 24.2 4.7 0 5.4 0 5.4 0 April (Questel 10s 253 24.2 14.0) 3.8 2.216 June JanDAKS Servicio 7. 220 12.5 15.75 3.7 3.710.3 3.0 4.6 April (Questel 10s 253 24.2 14.0) 3.8 2.216 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7   | 12   July Oct.  Berde Pt. 100   166   12.5   64.05   2.9   3.4   4.1   4.7   3.4   4.7   3.4   4.7   5.7   4.2   6.3   5.7     | Point Serv. 10a 225 10.3 1g4 0 37 2.5 14.0 18c 6.3 65 678 - 33.6 18 18 18 18 18 18 18 18 18 18 18 18 18  |
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| FOREIGN BONDS & RAILS   interest   Stock   Price   Last   Din %   Red.     Dut   Stock   22  | Sept   Mar Butmert H   150   150   211   2529   4 8 9 4  | June   Dec   Freenant  | 10 Mar. Sept.Teco.50   | 780 Jan 25 Zu 1 6.0 4 4 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8  |
| List   Listy   Do. 590; 174; 25   Boner   22   -   | Do. 5.95pcC-PFEI   | 18   | Sept. Necsones (Ron 1075   5294-117.9   0.979%   0.10.8   | 120   150    |
| 31.lan 31.liv 00. 14/get to 2016 128m14.7 14.50 11.33 No. 11.like 15.ext(retard 9act 91.95 197) 131.1 9 46 Au 30.lars 10cc) 10 | X  | Jas Jobylietere Los 109 251, 25 July 1 July  | May   Rev[Garhatlets Rest. 10p   128   1.4   d.13   d.0   1.5      | u (A.) 55  |
| Price   Last   Bir   Friend   Stack   Price   Last   Bir   Gross   C'ur   Gir's   Jan   Friend   Friedd   Friend   Friedd   Fri   | b July Varu Groep  | Oct. Ass: Lastes Frace 200   | 1  | e Ind. 10p 20 6777  104 28.4 2.25 2.4 3.0(5.1)  107 104 28.4 2.25 2.4 3.0(5.1)  108 109 109 20.2 2.4 3.5 16.9  109 20.2 2.4 3.5 16.9  100 109 20.2 2.4 3.5 16.9  100 20.2 2.4 3.5 16.9  |
| Nv Mr Ja Agadanden 25  | n. July EMEC 50p. 284 (2.5) 13.0 (19) 5.9 (2.5) by 7 Abbery 200 (2.5) 14.0 (2.5) 2.0 (   | 24   | Apr   Sepultyan Hotels is 5p   371-271 (98.194) 2-9   54   7.9   Feb   Salor 196   135   67.1   1314.9   May   Hookure 2-1   5   Apr   Sepul Statos 109   43   24.2   12.3   1.2   714.9   Apr   Sepul Statos 109   43   24.2   12.3   1.2   714.9   Apr   Sepulty Statos   135   10.2   7.8   4   48   4   4   4   4   4   4   4  | ## 26   515 07   10.5 25 3   10.6 25 3   10.6 2  |
| Fb Ny Au Mississerved 57.1. 9229 8.111 Ap Jly Ox Jamiliansker N.Y 510. 5720, 1665 12c - 1.2 Ma Ab Jr Ox Jamiliansker N.Y 510. 5720, 1665 12c - 1.2 Ma Ab Jr Oxina Six Corp. 5720, 1665 12c - 1.2 Ma My Au N 19 Sept. Atlantix 51. 706m 21.1  | n. Amelianier (Sent) 100   | Oct Aurifertes 100   | Apr CusiAG Research 10p 1276 27.1 10.3 1.2 5.4(1%) April Man. S<br>3 Oct AnriAIM 10p 113 10.2 65.79 1.5 7.212.7<br>May ManiphASD 11 199 1.0 80 3.0 5.6 8.0 Lan Cutikaritina<br>2 June Matronyon Brus. 10p 87 24.2 4.2 1.3 6.8 9.6 Lan Cutikaritina<br>June Matronyon Brus. 10p 14 2.6 1.2 9.2 8.1 11.4 2.0 Det June Material   | net Hids 10p. 66 242 sh.0 1.6 1.307.6 For Marrier see Buildings, 10d.10p   |
| Mar Jun S Dyffeern steer for 16/75 18ct 5   7ct - 2,7   Feb Co. In Ap J Hillemark for 16/75 2641, etc. 27   5ct - 1 to Mark 15   5ct - 1 to                  | 14. July Bitre Circle C1   | Dec   Rever durin 1: N.Y   122   294   33.2   37.0   37.2   37.   | Application      | #\$ Unorersal   70   74   420   40   40   40   40   40   40  |
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| Financial Times Monday July 28 1986 IMBUSTRIALS Continued PROPERTY—Continued PROPERTY—Continued  | 1NVESTMENT TRUSTS—Cont.   FINANCE, LAND—Cont.   MIKES—Continued   |
|--|---|
| Price   Pric   | Dividends   Last Or   |
| Sen Juniference Res 100 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2(34.0 July 90 miles Abrasi 3 32 128.4 1.5 2.3 6.6 9.1 Jan Grillsoner Res 10 36 14.4 0.0 1.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3   | Nov   May Durlets (nt. 50s   1   1251   1251   10.727 5   August   Inch & As   Inch & Inch   |
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|  | April [Eng & Burch in OPCID] ESA R 4 4067-0 0 1.77 October   Milk Cline 1270   128 (0.97 1.49   1.17  |
| December   PPCT Grap Dop   130   2511   3.2   1.2   6.0   27.1   July   Decir Scarn 50s   143   16.6   6.2   6   4.0   5   3.9   10.3   June   Deci Do, 51.5   6.7   258   2.6   6.7   3.5      April   PJM '8 'S '8 '5   551   4.5   6.5   2.1   4.7   2.6   2.6   2.7        | Jan. Aug Equity Consort (1   330ct) 4.7   12.2   5.2   July   Oct Parameter (50   45   2.5   1.2   1.0   4.1   5.5   1.2   1.0   5.2   1.5   5.5  |
| - RP minut its 32 B5 Apr Mod minutary Hotour A9 NA9 #40 - # - East March Continued to  | For Family Inv Tst see Ricement Smaller Co. For Throng USM Ts. 6 Warrants see Trank. Bank November 4 to 12 (25:50:12 11) Lian Augitation 4 Gen. 419 912 27 0 9 97 Nov April Transport. Sem. 50c. 221 10.2 99.57 12 29.17 0 Jun 24.72 20.27 12 29.17 12  |
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| Dec. Janes Sale Times 25 1.4 g6.5 2.6 3.913.7 lan. July Carliffus Sob. 25 30.6 5.5 9 3.6 9 - Stocker States Grey 18 9700 - 0 800 Link Sandbarrs Miss. 3thp. 67 2.6 1.24 1.5 24.35.9 Feb. Augt Carliffus Sob. 225 30.6 5.3 9 3.6 5.1 27 7.6 Stocker States Grey 18 9700 - 0 9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0   | Do. Warrants  |
| Jan.     Aug Ecopo Group     478     30.6     12.1     2.7     3.6     13.5     —     Event Nationals     12.2     45.79     2.2     7.3     7.3     Apr.     Oct.     De Type Cov., NiA     1350     Apr.     12.5     12.5     12.5     10.2     2.2     2.7     3.6     2.7     3.6     2.2     1.7     4.0     3.0     6.0     5.0     1.0     7.0     2.6     3.0     6.0     5.0     1.0     2.0     2.2     2.4       June     December     Scott Greenkan 100     127     30.6     3.3     2.6     2.7     3.6     2.5     2.7     3.6     2.7     4.0     2.2     2.2     3.7   | Dist. Warrants   10   |
| Apr Sep Do. W N.V  | Apply Systems in Section   125   1  |
| Apr Augifoldon Group   | Aug. Feb.Leds time, Inc. 20p. 37   10.2   179 4 1.9   29.1   July   Novikurany Perrol   125   14   83   21   189   21   9   9   9   9   9   9   9   9   9   |
| June Dec Sentits Inds. 25p 259 [4.4] 14.5 2.5 25.20.1 Dot. May Do. W. 318 1.4 7.75 3.1 2.4]9.4 Senting Inds. 25p 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5   | Do Warrants   |
| April   Apri   | Marrie Carre Re. 506   133   12.5   a0.73   1.3   0.8   May   Oct. Asiston   1.2   2.4   18.1   1.2   2.4   |
| February   Statistics Michael   163   30.6   4.2   1.7   3.6   23.4   May   Oedicrops Pub. 10p.   518   14.4   6.7   4.2   1.9   18.1   June   Nonjiccan Transport   | 25   195   16.5   2.6   1.9   1.9   1.5   |
| Apr. WorkSuccitiste. 26 (10.3 12.0 3.3 7.0 4.7 June SATA Selection 5o. 25 28.4 1.1.5 2.5 4.213.5 Feb Insert entitled Scott II 375 aft.4.7 9.0 4 3.4 4 Apr. Juny Successit Helts. 7 (10.1 3.4 5.0 4 11.1 4 May Author Med Meteor 5p. 25 10.3 12.8 3.7 12.8 12.6 SHOES AND LEATHER 0.1 12.5 9.0 1.9 5.9 12.9 May Author Med Section 5c. 10.9 12.1 30. 12.3 19.9 May Author Med Section 5c. 10.3 12.3 19.9 May Author Med Section 5c. 10.3 12.3 19.9 May Author Med Section 6c. 10.3 12.3 19.9 May Author Med Section Med Section 6c. 10.3 12.3 19.9 May Author Med Section Med S | 120     |
| Peb CdSystems  | May   New Barnet 09 15t.   58   1.4   0.53   1.5   1.5  |
| Test-Project Serv 106   122   -  | December 18 1 18 19   |
| Clarife Hooper Sp.   154   123   2.9   2.1   2   | April   Asset   185   195   |
| San  | August   A  |
| Feb. Aug. UKO Intl. 309 9.4 9.5 10 3.2 29.11.5 10 July Englapers 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5   | Column   C  |
| Jan. 0c1/Valor   | December   Rollino NV F18   |
| Apr. Oct. Wattsam's 50   | Dec   Just Spirit Cap 109   |
| Jame         Mon-Whatman R Appli 50         280         28.7         2.7         1.219.7         —         [Clearfold inc Studt]         100         —         04.7         3.2   10.4         Mon.         Mary Legislation (Market Indigated in Section (Market Indigated  | Feb JulyScottsch for 352 16.6 e5.92 1.0 2.4 Jan JulyScottsch for 352 16.6 e5.92 1.0 2.4 Jan JulyScottsch for 352 16.6 e5.92 1.0 2.4 Jan JulyScott & Hert & 355 9.12 114.0 1.0 5.0 July June Dec.Scott Mert & 510 12.5 8.5 11 2.3 May GN Grest National 267 1 510.1 MOTES  |
| June Dec Do. Spr. Luno Criff L. 265   2.6   5.0%   2.7   August Hilliand Brown 100. 125   50.6   R2.5   3.5   1.9   2.3   Jun. hely Lyles (S.) 269   79   59.4   15.5   0.9   9.8   1.5     Williams (J.) 1.20   Workfully, Group  | May Second Marks Im. 59. 120,284 salo22 03 and Journal Second Marks Im. 59. 120,284 salo22 03 and Journal Second Marks Im. 59. 120,284 salo22 13 and Journal Se  |
| Horfangian (A.J.) 10p   21   1972  | Strats Interstitution 125   125   131   13  |
| Hay Straightful Les 20   | Jan.   July   Revised September   19, 16.6   1.83 0.9   2.8   1.  |
| May Sept. Instantic 39 - Sept. | Dec Juse Throng, Sec. Growth 633-24.2 375 LD 83  Do. Can. El 382  |
| No.   Deciral insurance \$40.10   279   10.3   19.4%   0.3   0.3   0.4   1.5   | Mar   ModFor   Invest   Inc.  |
| Fig. My Ag. Nr. Lincoln Nat Cap 51   \$394.7   \$51.94   3.64   13.64  | Oct         April's Dec. Corp         265         1.4         6.52         0.8         3.5           July         DecVision Recomment         34         30.6         2.0         8.3         May         Assume Donors CL         800         28.6         90.39         15         future care to PC vision uncline  at a PC vision unclined at a PC vision  |
| Rice   Ray   Rice   R   | Apr. Sept. Yeoman law   |
| April   Dec. Section   Dec.    | Resemble   Abingmenth 100   224   74.0   \$2.1   \$2.5   \$2.5   \$3.0   \$2.2   \$2.5   \$2.5   \$3.0   \$2.2   \$2.5   \$3.0   \$2.5   \$2.5   \$3.0   \$2.5   \$2.5   \$3.0   \$2.5   \$3.0   \$ |
| April WTadou M EDR   | Jan   July Asset Trees 10p   72   12.5   10.96   11   14   18   18   18   18   18   18  |
| June   Hon-Hall   French   B 10p   545   12.5   17 2 2.3   4.413.5   Jan   Anglicty Site Essates   154,004.7   40.82   10.2   0.7   15.4   December   Berry Trus   253   11.1   +1.05   12.0   0.5   12.5   0.5   0.   | ## ## ## ## ## ## ## ## ## ## ## ## ##  |
| -   In   | Continuing Triest 100   30   638   8   -   0  |
| Boosty & Hamkes   166   FB4   -   -   Marx   Sept Disease Hidges   160   1.02   141   4   1.01   4   -     1.02   5   1.03   1.03   5   1.03   1.03   5   1.03   5   1.03   5   1.03   5   1.03   5   1.03   5   1.03   5   1.03   5   1.03   5   1.03   5   1.03   5   1.03   1.03   5   1.   | May   Line   L  |
| October   Schiertain Proof Sp.   9   16 9  002.25   2.1   35.21   Apr   October   19   12.5   0.2   0.7   1.9     1.5   0.3   0.3     1.5   0.3   0.3     1.5   0.3    | April Delprassing in Gramma 1769 10.4 Fres in 4.5   10.501 Fres   Annual Conference   10.501 Fres   Annual Conference   10.501 Fres   Annual Conference   10.501 Fres   Annual Conference   10.501 Fres   10.501 Fre  |
| May Oct   117   Non/Ye,  | Mort May Hanting Group  |
| Superfluid   Sup   | May im aB Beign A 5650 875 135 078° 6 42 6 Feb Aug Vinter post R1 248 30 6 0200 6 211  Dec Aug Investment Co  |

# INTERNATIONAL APPOINTMENTS

### **AMP** elects managing director

By Mark Westfield in Sydney MR IAN STANWELL has heen appointed managing director of AMP Society, Australia's largest institutional investor. Mr Stanwell is to succeed Mr Alan Coates, who is due to retire Decemis to succeed Mr Alan Coates, who is due to retire December. Mr Stanwell, 49, 1as been head of the AMP investment division since late 1984, and has presided over a substantial shift of the society's investments offshore in that time.

time.
The AMP controls investment funds of A\$18bn of which A\$1.5bn has been placed offshore over the past

two years.
Mr Coates has been managing director since 1979 and was a member of the Camp was a memoer of the Campbell Committee, which in 1981 recommended a substantial deregulation of the Australian financial industry.

Omnicorp Investments OMNICORP INVESTMENTS, the New Zealand investment company, has appointed Mr Grant McCrostie operations manager for the UK office it plans to open early next year. writes Dai Hayward from Wellington. Mr McCrostie will be reseponsible for setting up the office and investigating and develop-ing investment opportunities in Britain and Europe for the Auckland-based company.

# Lord Richardson takes on Top move in Japan role at Chemical Bank

LORD RICHARDSON, the International, the holding comfirst vice president, retains his former Governor of the Bank pany for the bank's principal responsibilities as chief planoverseas activities. of England, is joining the international advisory board of Chemical Bank, the big New York money centre bank, and will take over the chairmanship from Mr W. Michael Blumenthal, the former US Treasury Secretary, who is to remain on the advisory board.

Party for the Bank's Principal responsibilities as chief plantoverseas activities.

Dr Bergsten, who has made his name as an international end private sectors, has been director of the Institute for International Economics since 1981.

Mr Law, 37, was first vice president and co-general conditions and private sectors in the public private sectors in the public provided from the Bank's international advisory board.

Dr Fred Bergsten, a former Dr Fred Bergsten, a former assistant secretary of the US Treasury for international affairs, is also joining Chemical's 30-year-old international advisory board. The two new members replace Mr Roger Fauroux, chief executive of Compagned of Science Secretary be Compagnie de Saint-Gobain, the French state-owned glass and engineering group, and Mr Paul Hirsch, chairman of the Buenos Aires-based Consolidated Min-ing and Industries.

Lord Richardson, who served as Governor of the Bank of England from 1973 to 1983, England from 1973 to 1983, was previously chairman of Schroders, the London merchant bank, and is vice chairman of the Bank for International Settlements, of Basle. Since stepping down as head of Britain's central bank he has taken on a number of advisory roles. He sits on the advisory

from 11 countries and meets roughly twice a year. Among other members are Mr George other members are Mr George Ball, former senior managing director of Lehman Brothers Kuhn Loeb. the Wall Street investment house, Mr Shiro Inoue, senior adviser of Yamaichi Securities, one of the Big Four Japanese securities houses, and Dr Fritz Leutwiler, former president of the Swiss National Bank, the country's central bank.

AMERICAN EXPRESS BANK (AEB), the wholly owned, New York-based international bank-

Chemical Bank's international president and co-general advisory board has 21 members manager and country head for manager and country need for AEB's subsidiary in Germany. As global centre head and cogeneral manager of the subsidiary. Mr Law will be responsible for the development and marketing of the bank's global products and services out of Frankfurt of Frankfurt.

> Mr Baroudi, 40, formerly first vice president and chief operating officer for Egyptian American bank (EAB), the bank's wholly owned subsidiary based in Cairo is to be manag-ing director of EAB.

E. F. HUTTON, the Wall Street York-based international bank securities house, has appointed ing arm of American Express Mr John N. M. Derosier, a

# by Merrill Lynch

investment banking operations. He is expected to join Merrill

MERRILL LYNCH Capital Mar. Lynch Japan. Mr Moriya will

He is expected to join Merrill financial ideas from the Lynch Japan this summer.

He is to work with Mr John A. Williams, president and chief executive of Merill Lynch Japan, as senior Japanese representative on business and country maters. He will also to the commercial interests of their clients in Japan through serve as a banker working with acquisitions, joint ventures and Mr Jerome Corcoran, a Merrill similar arrangements. He is Lynch Capital Markets managing director and director of clients in developing their investment banking for Merrill interests in the US.

### Kvocera revises chief posts

KYOCERA CORPORATION, dent of the company for 20

MERRILL LYNCH Capital Markets has announced that Mr advise the firm on strategy and Hisashi Moriya is to move from the concern's New York office Mr Williams and Mr Tetsundo to Tokyo to take up the position of resident mana ing director, Merrill Lynch Japan.

Mr Moriya joined Merrill Mr Iwakuni, recently translyten from Becker Paribas where he was managing director responsible for international investment banking operations.

responsibility for bringing financial ideas from the Japanese markets to clients in

BY OUR FINANCIAL STAFF

the Japanese maker of ceramic, years. He says that he is to deal electronic parts, has elected Mr with international affairs and



# 28th July, 1986: Wako moves to even better service

Beginning 28th July, Wako International (Europe) Limited moves to 16 Finsbury Circus, in the heart of the City's financial district. Our new location promises greater convenience, and even better service. We are taking full advantage of this change to increase our staff and further expand our computerised brokerage and information systems.

These enhancements will allow us to better serve the growing and changing needs of our customers.

Once we've made our move, we'll be in an excellent position to help you make yours.

New address:

Wako International (Europe) Limited 4th Floor, Park House 16 Finsbury Circus, London, EC2M 7DJ Tel: (01) 374-6055 Fax: (01) 374-8611 Telex: 884020



International Headquarters: 6-1, Koamicho, Nihonbashi, Chuo-ku, Tokyo 103, Japan Tel: (03) 667-8111 Telex: J24819, J28484, J28841, J23885 Overseas Network: London, Paris, Geneva, Bahrain, Hong Kong, New York, Los Angeles

### WEEK'S FINANCIAL DIARY

The following is a record of the principal business and financial engagements during the week. The board meetings are mainly for the purpose of considering dividends and official indications are not always available whether dividends concerned are interims or finals. The sub-divisions shown below are based mainly on last year's timetable.

Therry Oson. 12-00
Nortons, Spencers Wood, Reading, Serkshire. 12-00
Rea Bros. Great Eastern Hotel. Liverpool
Street. EC. 12-00
Street. EC. 12-00
Street. W. 11-30
Vising Resources Treet. Hotel Interconversal. Heading Pasca. W. 12-00
Cheshire. 12-00
Sepand Mestings.

es Invest 5.75p Hing Publishing 2p onto-Dominion Bank 21 cts delegton (John) 13p

Dewhirst (1. J.) 9.75pcPf 4.875p Drayton Japan Trust 42cPf 1.4p Ecobric 0.25p Ecotronic Repairs 2.0655p Elswick-Repair 22cPf 1992-94 2p English and Scottish Investors 4ccDb 1932-1989 2pc 5pcDb 1982-89 2/pc. 6/lpc 

goc Igner invests 2.4p twells 1.77p Hemere Estates 1042oc1stMt0b 2016 Supe HHI (Philip) Invest Trust 7.8p Hookinsons 5.25pcPt 2.822p House of Frater 6ccIn 1993-98 3pc. 8upc In 1993-98 4upc Hudson's 84v 15 cts Italy (Requalic of) Fity Rate Notes 2005 561.35

The second of th

Industries 71-pcDb 1983-88 314pc. b 1995-200 554pc a California Edison 57 cts 7k 2-52p and and South Shields Water 8pc 86 4pc

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Western Ground Rents 3/4pc/34/4/1 1991 1/4pc Wolseley 3.5p. 7pcDb 31/2pc. 10pcDb 1990-95 5pc FRIDAY AUGUST 1
COMPANY MEETINGS—
BPB Inds. Inn on the Park. Namiton Place, W. 12.00
Bulmer and Lumb, Victoria Hotel, Bradford, 3.00 inds. Brown's Hotel. Dover 
Screet, W. 12.00
Crosser (James), Euroside Mills, Kendal,

d. Hyde Park Hotel, Knightsbridge. 11.45 SW. 11.43 Rotaprint. Cumberland Road, Honerpot Lane, NW. 11.30 Scapa. Most House Hotel, Yew Tree Drive, Blackburn. 12.00 BOADD. METERIOLOGY

12.30 cs. Prescot Road, St Helens, evides, 2.30 Cs. Scott 1.30 cs. St. No. 1.30 cs. No. 1.30 cs. No. 1.30 cs. No. 1.30 cs. No

REGULAR QUARTERLY ... DIVIDEND

**57.5**¢

PANHANDLE EASTERN CORPORATION

 Dow Industrial
 3.81
 3.72
 3.59

 July 16
 July 9
 July 9
 July 9

 S and P Industrial
 3.13
 8.00
 3.88

 S and Pind PrE ratio
 17.12
 17.68
 16.61

| NEW YORK ACTVE STOCKS | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Change | Chan

TRADING ACTIVITY

CANADA

5.66 June 25 2.93 18.32

TORONTO July July July July July 1986

Metals & — 1984.7 2015.9 2007.6 1968.9 244.85 (27.5) 1934.0 11877

Composite 2957.5 2952.5 2966.3 3971.1 2968.1 3129.11 (18.4) 2754.8 (17.2)

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July 25 July 24 July 23 1,944 1,960 1,960 249 649 854 552 916 733 413 395 371 80 86 61 47

SPAIN Madrid SE (80/12/85)

SWITZERLAND Swiss BankCpn (31/12:58)

\$56,07 \$39,07 \$45.69 \$47,59 402,81 (18/1) \$56,07 (25/7)

172,55 172,18 172,15 194,77 (12/5) 100,85 (6/1)

- 1293.2 1297.1 1855.8 1353.6 (22/7) - 1211.8 1215.5 1214.8 1219.2 (21.7)

SINGAPORE Strarts Times (80-12:66) 725.92 725.43 728.24 729.78 775.89 (25:5) 563.54 (28:4)

SWEDEN Jacobson & Piši 12/56) 2455,18 2468,14 2475,27 2456,80 2518,56 (7/7) 1723,57(28/1)

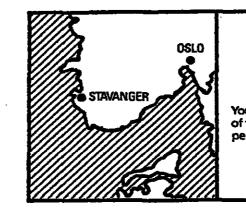
|   |  |  | · <b>W</b> (   | ORLD STOC  | CK MAI   |
|---|--|--|--|--|--|
|   | AUSTRIA  | GERMANY  | AUSTRALIA  | JAPAN  | CANADA   |
|   | 1986   | 14.75 11.5 OK Bazzars 14.75 76 45 Rembrandt 74.5 42.76 26 Rust Plat 42.75 17.4 13 Safren 16.75 11.5 9.5 Sage Hidgs 10.6 12 8.8 SA Brews 11.5 30.5 24 Smith (GG 28.25 8.4 7.4 Tongoat Huletts 7.6 | 1996   | 2,230 1,570 5'tomo Bank 2,300 452 236 5'tomo Chem ! 427 1,020 725 5'tomo Corp 1 1,020 1,270 840 5'tomo Elect. 1,220 1,75 137 5'tomo Metal 168 589 306 Talsei Corp 585 995 496 Talsei Corp 70 770 6'75 Talyo Kobe Bank 768 1,900 967 Takeda 1,900 4,480 3,050 TDK 3,340 565 457 Tellin 507 2,080 1,110 Toa Nenryo 1,980 1,930 760 Tokai Bank 990 1,370 833 Yokio Marina 1,550 1,350 869 Tokio Marina 1,550 5,350 2,690 Tokio Elect Pwr 5,260 4,377 Tokio Marina 1,490 639 483 Toray 648 1,190 565 Tokyu Corp 1,110 1,770 974 Toppan Print 1,490 639 483 Toray 648 477 357 Toshiba Elect 467 2,740 1,490 Topo Selkan 2,600 1,560 1,130 Toyota Metor 1,340 307 200 UBE Inda 995 3,260 1,490 Victor 2,400 775 625 Yamaha 751 1,470 680 Yamaldoli Seo 1,420 | TORONTC   Closting prices Juli   1978   1979   19 |
|   | JONES 25 24 23   | July 22 21 High Low High Low<br>795,13 1779.11 1899.05 1909.25 1909.05 1917.32   | July 32 24  AUSTRALIA A(I Ord. (irit60) Metals & Minis. (1;1-80)  AUSTRALIA 481.1 486.1  | July July 1986<br>23 22 High Low<br>1157.7 1155.7 1247.6 7 51 1218.8 (2-7)<br>502.1 506.5 602.8 (24:5) 481.1 (29:5)  | F)   |
|   | H'ma Bnds 90,41 90,34 91,06  Transport 720,50 715,38 726,38  | 91,45 91,41 81,84 85,75 — — — — — — — — — — — — — — — — — — —  | DENMARK  | 8658.08 8642.96 8746.88 (7.7) 2766.91 (15:1)   | BELG   |
|   | Utilities 207.45 205.42 205.43 eDay's High 1821.57 -1806.81: STANDARD AND POOR'S Composite: 240.22 237.95 238.67 | 25.7. 22.7 25.7.36 8.4.34<br>Low 1791.06 (1778.68)<br>238,18 236,24 252.70 281,49 252.70 4.40  | DENMARK<br>Copenhagan SE (3:1,85) 282,59 295,39<br>FRANCE<br>CAC General (81:12/82) N/A 374,9<br>Ind Tendance (31/12/82) 144,9 145,1           | 205,88° 206,92° 250,78 (18/4) 202,55 (25/7)  567,1 ° 363,7 411,3 (15/5) 257,8 (2/1) 159,5 156,1 154,5 (12/5) 701,6 (2/1)   | You car<br>of the F<br>person<br>in the c  |
|   | Industrials 265.32 262.72 263.65 :<br>Financials 28.68 28.41 28.48   | . (2/7) . (22.1) · (27.765, 1)6-32<br>265,27 261,13 262,24 224,8 282,24 3.52<br>(2/7) 221 (27.789,21-6.52<br>28.41 28,13 31.15 25.19 31,15 8.54  | GERMANY<br>FAZ Aktion (31/12/68) 818.51 810.08<br>Commerzbank (1/12/65) 1851.79 1850.5<br>HONG KONG<br>Mang Seng Bank/31/7/84, 1845.57 1858.08 | 584.52 588.92 755.88 (17.4) 583.92 (22/7) 1785.8 1762.4 2279.8 (17.4) 1782.4 (22.7) 1816.98 1791.53 1865.65 (7.5) 1559.94 (18/8)   | for furt<br>Philippe<br>Rue Duci   |
|   | N.Y.S.E. 138,41 137,25 137,67<br>COMPOSITE<br>AMEX. MKT   266,31 265,99 267,20<br>VALUE                          | (14/5) 22/1 14/5/86 1/10/7<br>137,38 136,25 145,15 117,75 146,15 4,46<br>(2/7) (22)1 22/7/85 25.44<br>266,92 266,36 285,19 249,0 285,19 29,16<br>(256,6) (42, 25,6)86 5:12/7                     | ITALY<br>Banca Committal. (1972) 717,98 714,52<br>JAPAN** (18/5/49) 18/94,36 18/76 2   | : 682_17 682.85 508_28 (28,6) 454.67 (24/1)<br>17880.1 17838.5 18054_58 (25-7; 12891.5 (21/1)  | B-1000 Bi<br>Belgium   |
| 1 | NASDAQ 379.83 378.74 379.85<br>OTC COMP.  DIVIDEND YIELDS July 18 July  Dow Industrial 3.81 3.7                  | 72 3.59 3.66 4.51  | Tokyo BE New (4/1.58) 1452.02 1445.91<br>NETHERLANDS<br>ANP.CBS General (1970) 282.2 283.5<br>ANP.CBS Indust (1870) 283.7 283.9<br>NORWAY      | 1421.51 1585.02 1452.02 (25.7) 1825.85 (21:1)  |  |

| n_   |   | an only the few flows  | Sand Shot Int Close Chan   | The Court Hart I have Chess Chess  |
|--|---|--|--|--|
| 700 000 000 000 000 000 000 000 000 000      | TORONTO  Closing prices July 25  AMCA Int S154, 159, 157, -14  200 Abertord 40, 430 430 -10  1050 Approx E \$236, 2236, 234, +12  1050 Approx E \$236, 2236, 234, +12  2000 Abertord \$21, 22 236, 234, +12  2000 Abertord \$21, 21, 124, +12  2000 Approx E \$356, 2236, 234, +12  2000 Approx E \$356, 2236, 234, +12  2000 Approx S1 \$41, 44, 14, 14, 14, 18  2000 Approx S1 \$14, 44, 14, 14, 14, 18  2000 Approx S1 \$14, 44, 14, 14, 14, 18  2000 Approx S1 \$14, 14, 14, 14, 14, 14  2000 Approx S1 \$14, 14, 14, 14, 14, 14, 14, 16  2000 Approx S1 \$14, 14, 14, 14, 14, 16  2000 Approx S1 \$14, 14, 14, 14, 14, 16  2000 Approx S1 \$14, 14, 14, 14, 16  2000 BGR A \$200, 200, 200, 200, 200, 200, 200, 200 | Sales   Stack   High   Law   Close   Clarg   | ### Loss Class Class   #### Loss Class   ##################################  | Sales Stuck    High   Lew   Clear Charge   Class   Charge   Class   Charge   Class   Charge   Class   Charge   Class   Charge   Class   
| 50<br>95<br>00<br>99<br>93<br>94             | OVER-THE-CO   | OUNTER Nasdaq nati   | ional market, closing prices July  | 25   |
| 65<br>40<br>50                               | Stack Sales High Low Last Clang<br>(Huda)   | Stock Sales High Law Last Clong<br>(Hods)  | Stock Sales High Low Lest Chang<br>(Finds)   | Stock Seles High Law Less Ching<br>(Hads)  |
| 109550000683800086 300800070008 990088100087 | Continued from Page 29  CMS 687 1414 1334 14  Cuartra 407 1215 1136 12 + 34  Cuartra 98 1615 164 1612  Cuartra 98 1615 164 1612  Cuartra 166 1214 1214 1215 14  RAX 51e 24 78 76 78 76 78 18  RAX 51e 24 78 76 78 18 1814  RAX 51e 24 78 76 78 18 1814  RAX 51e 24 78 78 78 18 1814  RAX 51e 24 78 78 78 18 1814  RAX 51e 24 78 78 78 18 1814  RAX 51e 24 78 78 78 18 1814  RAX 51e 24 78 78 78 185 185 185 185 185 185 185 185 185 18   | Society Science Society Societ | Subarus   3164   2314   2714   2814   1718   1816   1718   1816   1817   1816   1817   1816   1817   1816   1817   1816   1817   1816   1817   1816   1817   1816   1817   1816   1817   1816   1817   1816   1817 | UStahn 24 114 1534 1512 1556 16 19 11 3113 3112 3112 3112 11 3113 3112 3112 3112 11 3113 3112 3112 3112 3112 3112 3112 3112 3113 31 |



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or Marianne Hoffmann Narvesen AS Oslo Norway Tel:(2)684020

# NEW YORK STOCK EXCHANGE COMPOSITE CLOSING PRICES

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# NYSE COMPOSITE CLOSING PRICES

# AMEX COMPOSITE CLOSING PRICES Closing prices. July 25

| NISE COMPOSITE CLOSING PRICES  | AIVIEX CUNIPUSITE CLUSTING PRICES July 25  |
|--|--|
| AND DELIVERY  SERVICE  BANKSCHOOL SERVICE  BAN | The control of the co |
| FRANKFURT/HAMBURG/HESSISCHE BERGSTRASSE/ HOECHST/MUNICH/OFFENBACH/RUESSELSHEIM/ STUTTGART/VIENNA  Your subscription copy of the FINANCIAL TIMES can be hand-delivered to your office in the centre of any of the cittes listed above.  | Chapter 454 13,13-16 13+14 1567 403 403-403-403-403-403-403-403-403-403-403-   |
|  | Call 8 2 18 66 54 52 54 + 12 1 FFIBE A4 31 347 344 347 4 MPSI 109 8 14 8 1-81 Continued on a age 41  |

### CURRENCIES; MONEY and CAPITAL MARKETS

### FOREIGN EXCHANGES Technical factors lift dollar

BY COLIN MILLHAM

The dollar survived a fairly £ IN NEW YORK The dollar survived a fairly eventful week without showing too much change. By the end of the week the foreign exchange market had become largely technical by way of trading patterns, and this produced a small dollar recovery.

Barclays Bank commented that heavy selling the previous week had left gaps for the chart followers, where certain levels

followers, where certain levels were insufficiently traded on the

### CURRENCY MOVEMENTS OTHER CURRENCIES

| July 25   | Bank of<br>England<br>Index | i<br>Morgan<br>  Guaranty<br> Change %   | July 84  | ē  |
|---|-----------------------------|--|--|--|
| Sterling U.S. dollar Canadlan dollar Austrian schilling Belgaan franc Darleh Kroner Deutsche mark Swiss franc Guikier French franc Lire Yon. Morgus Guzzany | 95.4<br>86,4                | -19.1<br>+4.1<br>-12.6<br>+7.4<br>+7.2<br>-1.0<br>+16.2<br>+21.1<br>+10.6<br>-13.8<br>-16.9<br>+60.0 | Aus'sia Brazil Finland Greece H'kong Iran Kuwait Kuwait Kuwait Malaysia N'Z'land Saudi Ar Sin'pere SAf (Cm) SAf,(Fn) | 3,9425-3,950<br>2,9085-2,615<br>6,5776-6,563<br>3,2590-3,264<br>3,7940-3,630<br>7,2586 7,630 |
| 1960-1282=10C, Bai  | at of Eng                   | land Index   | U,A,E,   | 5,4596-B,465   |

POUND SPOT-FORWARD AGAINST POUND

| July 25  | Spread                                  | Close              | One month         | %<br>_ p.a. | Three<br>months                     | %<br>p.a. |
|----------|---|--------------------|-------------------|-------------|-------------------------------------|-----------|
| บร       | 1.4795-1.4915                           | 1.4825-1.4835      | 0.43-0.40c pm     |             | 1.21-1.16pm                         | 3.20      |
| Canada   | 2.0520-2.0703                           | 2.0530-2.0560      | 0.28-0.18c pm     |             | 0.65-0.43pm                         | 1.05      |
| Mothind. | 3.57 <sup>1</sup> 2-3.60 <sup>1</sup> 2 | 3.574-3.584        | 11-11-c pm        |             | 37 <del>-31</del> pm                | 4.12      |
| Belgium  | 65.70-86.64                             | <b>65.70-65.80</b> | 17-12c pm         | 2.85        | 47-36pm                             | 2.52      |
| Denmark  | 11.95 z-12.05 4                         |                    | 15-5ore pm        | 1.13        | 5-31 <sub>20</sub> m                | 1.65      |
| i reland | 1.0705-1.0750                           | 1.0740-1.0750      | 0.100 dis-per dis | -0.56       | par-0.20dis                         | -1.72     |
| W. Ger.  | 3.171-3.204                             | 3.174-3.184        | T-1-pr pm         | 5.42        | 41 <sub>6</sub> -37 <sub>6</sub> pm | 5.11      |
| Portugal | 219.25-221.64                           | 219.26-220.97      | 70-165c dia       | -6.41       | 190-470dis                          | -6.00     |
| Spain    | 202.89-204.50                           | 202.89-203.39      | 35-65c dis        | -2.96       | 110-150dis                          | -2.56     |
| Italy    | <b>2,180-2,200</b>                      | 2,181-2,182        | 2-6 lire dis      | -2.20       | 8-12dis                             | 1.83      |
| Norway   | 11.12 - 11.19%                          | 11.134-11.144      | 412-572 ore dis   | -4.98       | 13-147-die                          | -4.89     |
| France   | 10.28 - 10.35                           | 10.281-10.2912     | 24-14c pm         | 2.41        | 6'2-5 <sup>7</sup> apm              | 2.43      |
| Sweden   | 10.49-10.55                             | 70.50-10.51        | ³₂ore pm-³₂ dis   |             | 4-DAT DM                            | 0.74      |
| Japan    | 2334-2354                               | 2331,-2341,        | 11-7-y pm         | 5.45        | 3-21 pm                             | 4.92      |
| Auatria  | 22.40-22.52                             | 22,40-22,43        | 94-84gro pm       | 4,96        | 267-233.pm                          | 4.52      |
| Switz.   | 2.564-2.584                             | 2.55%-2.57%        | 14-7c pm          |             | 31-27 pm                            | 4.67      |
| 8        | elgian rate is                          | for convertible    |                   |             | 66.30-66.40.                        |           |
|          |   |                    | 2.28c pm. 12-mor  |             |                                     |           |

### FORWARD RATES AGAINST STERLING

| French Franc  |                         | 10.2900 10.2<br>2.5875 2.9<br>233.75 232      | 2676 10.22<br>575 2.537             | 72 10.1742<br>9 2.5078                 | 10.0619<br>2.4476<br>222.59 |
|---------------|-------------------------|---|-------------------------------------|--|-----------------------------|
| EMS EURO      | PEAN                    | CURREN  | CY UNI                              | T RATE                                 | 5                           |
|               | Ecu<br>central<br>rates | Currency<br>amounts<br>against Ecu<br>July 25 | % change<br>from<br>central<br>rete | % change<br>adjusted for<br>divergence | Divergence                  |
| Beiglan Franc | 43.6761                 | 43.8470                                       | +0.39                               | +0.86                                  | +1.5388                     |

Changes are for Ecu, therefore positive change denotes a weak currency. Adjustment calculated by Financial Times.

as a result of shortcovering after the upward revision to 3.8 per cent from 2.9 per cent in first

| July 25 | Close   | Prev. close   |
|---------|---|---------------|
| l month | 51,4780-1,4790<br>0.43-0,42pm<br>1,30-1,18pm<br>4,40-4,30pm | 0.42 0.41om   |
|         | ensiums and di  | scounts apply |

relation to those in other leading industrial nations.

The dollar's slight recovery was therefore regarded as purely technical, with dealers continuing to believe an attack on DM 2.12 would come sooner, rather than later. There were some cautious voices, however, suggesting the US currency was heading into another period of consolidation, before retreating again.

It should also be remembered the dollar rose from DM 2.1740 on May 12 to DM 2.3250 by the end of the month, even though the overall downward trend was still intact.

The ruling factor is the US trade effect and there is an obvious lag between the time when the dollar has fallen farenough to begin to correct the situation and this trend showing up in the monthly trade figures. There is no great optimism that Wednesday's US trade figures for June will show much the work of the month that the dollar has fallen farenough to begin to correct the situation and this trend showing that Wednesday's US trade figures for June will show much that weight of the month that weight of the month of

| July 25      | Bank<br>rate<br>2  |   | Europeal<br>Currency<br>Unit   |
|--------------|--|---|--|
| Starling     | 8,57<br>48<br>7<br>51 <sub>2</sub><br>41 <sub>2</sub><br>91 <sub>2</sub><br>31 <sub>2</sub><br>8<br> | 0,798147<br>1,18868<br>N/A<br>9,60578<br>N/A<br>1748,71(1)<br>186,266<br>8,93293<br>N/A<br>8,93293<br>164,739<br>164,739<br>164,739 | 156,165<br>7,49091<br>135,836<br>6,99658<br>1,71362<br>136,5826<br>0,71379 |
| (1) SDR rate |  |   | vanov.   |

| DVL      | LAR SP                   | )1 <del></del> | TARD AGA         | 1421      | DULLA           | n           |
|----------|--------------------------|----------------|------------------|-----------|-----------------|-------------|
| July 25  | Day's<br>apread          | Close          | One month        | %<br>p.z. | Three<br>months | P.          |
| 1K1      | 1.4795-1.4915            | 1.4825-1.4835  | 0.43-0.40c pm    | 3.36      | 1.21-1.16pm     | 3.          |
| relandt  | 1.3304-1.3910            | 1.3815-1,3825  | 0.37-0.27c pm    | 2,77      | 1,20-1,00pm     | 3           |
| Canada   | 1.3857-1.3880            | 1.3865-1,3876  | 0.22-0.25c dis   | -2.03     | 0.70-0.80dis    | -2          |
| Nethind. | 2.4100-2.4270            | 2.4145-2.4155  | 0.17-0.15c pm    | 0.79      | 0.60-0.55pm     | Q           |
| 3elglum  | 44.14 <del>-44</del> .45 | 44.30-44.40    | 1-3c dis         | -0.54     | 5-10dis         | <b>-</b> 0  |
| Jenmark  | 8.04-8.10 <sup>2</sup> 2 | 8.07%-8.07%    | 1.25-1.75ors dis | -2.23     | 3.25-3.75dis    | -1          |
| N. Ger.  | 2.1370-2.1555            | 2.1445-2.1465  | 0.38-0.35pf pm   | 2.04      | 1.05-1.00pm     | 1           |
| laputro  | 7481-1481 <sub>4</sub>   | 1483-1493      | 90-150c die      | -9.66     | 250-430dis      | -9          |
| cein     | 136.60-137.45            | 137.05-137.15  | 60-90c dia       |           | 180-220dis      | -5          |
| taly     | 1,467-1,490              | 1,4701-1,4711  | 6-71 lite die    | -5.50     | 174-19dia       | -4          |
| Vewrot   | 7.484-7.534              | 7.801-7.611    | 5.00-5.40ore dia | -8.30     | 15.00-15.50d    | -8.         |
| галса    | 6.9175-6.9650            | 6.9365-6.9415  | 0.50-0.55c die   | 0.91      | 1.25-1.40dis    | <b>−0</b> . |
| weden    | 7.04%-7.09               | 7.08-7.08      | 1.75-2.00ore dis |           |                 | Ś.          |
| lepan    | 158.80-158.50            | 157.58-157.65  | 0.27-0.22y pm    |           | 0.74-0.69pm     |             |
| Austria  | 15.05-15.16              | 15.12-15.12    | 21-11-gropen     |           | 6-4pm           | 1:          |
| witz.    | 1.7240-1.7380            | 1.7315-1.7325  | 0.22-0.17c pm    | 1.35      | Q.84-0.59pm     | 1.          |
| t UK     | and Ireland a            | ne quoted in i | US currency, Fo  | preward   | premiuma sa     | ď           |

| July 25       | snort<br>term | notice    | Month     | Months   | Months   | Year      |
|---------------|---------------|-----------|-----------|----------|----------|-----------|
| Sterling      | 934.978       | 97g-10    | 9#-10     | 975-10   | 978-10   | 975-10    |
| U.S. Dollar   | 614-646       | 6-j-6-fg  | 6-6-6-    | 612-666  | 614-548  | 656-634   |
| Can Dollar    | 778-818       | 8-814     | 8-1-8-1   | 866-866  | 856-878  | 884-9     |
| D Guilder     | 614-668       | 51g-55g   | 6-5-8-4   | 5-656    | 546-519  | 686-516   |
| Sw. Franc     | 814-818       | 1414-141g | 6-5-8     | 6-616    | 478-5    | 416-418   |
| Deutschmrk    | 48-416        | 4-g-4-fg  | 4-1-4-5   | 412-456  | 48-411   | 486-484   |
| Fr. Franc     | 736-718       | 714-75g   | 7-1-7-6   | 74-756   | 778-776  | 78-7-6    |
| Italian Lira  | 9-1018        | 1014-1114 | 11-1-11-1 | 114-1154 | 1148-114 | 1186-1178 |
| B.Fr.(Fin),   | 675-718       | 71g-75g   | 71g.75q   | 718-734  | 71g-75g  | 71g-75g   |
| B.Fr.(Con)    | 614-714       | 63g-71g   | 7-71g     | 7-712    | 7-71g    | 7-71g     |
| Yen           | 413-478       | 47g-5     | 413-47g   | 434-413  | 41g-45g  | 41g-45g   |
| D. Krone      | 834-914       | 83g-91g   | 9-91g     | 914-934  | 91g-10   | 93g-101g  |
| Asian 8 (Sng) | 616-618       | 67g-67g   | 61g-65g   | 612-668  | 61g-65g  | 6.8-61g   |
| _             |               |           |           | _        |          |           |

Long-term Eurodollers: two years  $\theta^*_{\sigma}$ - $T^1_{\sigma}$  per cent; three years  $T^{\bullet}_{\sigma}$ - $T^{\bullet}_{\sigma}$  per cent; four years  $T^{\bullet}_{\sigma}$ - $T^{\bullet}_{\sigma}$  per cent; five years  $T^{\bullet}_{\sigma}$ - $D^{\bullet}_{\sigma}$  per cent nominal. Short-term rates are cell for US dollars and Japanese yen; others two days' notice.

### **MONEY MARKETS**

# No prospect of early rate cut

Interest rates showed very little movement on the London money market last week, and the discount houses continued to see little hope of any early reduction in clearing bank base rates. As optimism about lower rates has faded market rates have moved up into line with the Bank of England's intervention rates. As this has happened the houses have decided not to continue running a large amount of long thand 4 eligible bills. This paper was about to slip out of band 4 and into band 3, where it would have commanded 1 lower intervention price, and with no prospect of an early cut in interest rates was therefore sold.

The performance of sterling the strength of the did not inspire confidence. The leading rate 10 per cent since May 22

leading rate 10 per cent since May 22

leading rate 10 per cent since May 22

leading rate 10 per cent since May 22

leading rate 10 per cent since May 22

leading rate 10 per cent since May 22

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leading may 10

leading rate 10 per cent since May 22

leading rate 10 discount houses continued to see

| UK clearing bank base                     | _ |
|---|---|
| lending rate, 10 per cent<br>since May 22 |   |
|   |   |

WEEKLY CHANGE IN WORLD INTEREST RATES

| LONDON                            | July 25           | change            | NEW YORK                               | July i     | 55 change     |
|-----------------------------------|-------------------|-------------------|--|------------|---------------|
| Base rates                        | 10                | Unch'd            | Prime rates                            | 8          | Unch 'd       |
| 7 day interbank<br>3mth interbans | 10                | '— %g<br>'lineh'd | Federal funds<br>3 Mth. Treasury Bills | 64<br>5.97 | 1-10<br>+0.27 |
| Treasury Bill Tender              | 9.6316            | + 0.0511          | 6 Mth. Treesury Bills                  | 6.06       | 35.0 +        |
| Band 1 Bills                      | 91g               | ·Unch 'd          | 3 Mth. C D                             | 5,34       | +0.02         |
| Band 3 Bills                      | 849               | Unch d            |  |            | 1             |
| Band 3 Bills<br>Band 4 Bills      | 9\ <del>\</del>   |                   | FRANKFURT                              | 6.6        | Unch' d       |
| 3 Mth. Treasury Bills             | 954               | .+ 'R             | One mth. Interbank                     | 4,60       | Unch d        |
| i Mth. Bank Bills                 | 916               |                   | Three month                            | 4,60       | Unch'd        |
| 3 Mth. Bank Bills                 | 95g               |                   | PARIS                                  | ı          | - 1           |
| TOKYO                             |                   |                   | Intervention Rate                      | 7          | Unch'd        |
| One month Bills                   | 4.65625           | Unch'd            | A                                      | 7-1        | Unch'd        |
| Three month Bills                 | 4,71873           | יטחכח פי          | Three month                            | 7#         | Unch 'd       |
| BRUSSELS                          | ! <u>_</u> _      | i .               | , MILAN                                |            | ì             |
| One month                         | 74                | 1+ lg             | One month                              | 114        | — <u>1</u> 8  |
| Three month                       | 718               | i+18              | Three month                            | 117        | -4            |
| AMSTERDAM                         |                   | ٠.                | DUBLIN '                               |            | 1 _           |
| One month<br>Three month          | 5++<br>5++        | r⊷ig<br>•+πk      | One month Three month                  | 104        | +10           |
| I ULBS MOUTU                      | - <del>- 18</del> | שודי -            | · I III be Mantil                      | 104        | (+·g          |

London—bend 1 bills mature in up to 14 days, band 2 bills 15 to 23 days, band 2 bills 34 to 63 days and band 4 bills 64 to 91 days. Rates quoted represent Bank of England buying or salling rates with the money market. In other centres rates are generally deposit rates in the demestic money market and their respective changes during the week.

### MONEY RATES

| July 25          | 'Ov'r-nig't | One<br>Month |           | Three Nonths |           | Lombar<br>In'v'b'r |
|------------------|-------------|--------------|-----------|--------------|-----------|--------------------|
| Frankfurt        | 4,50 4,60   | 4.55-4.65    | 4.55-4.65 | 4,65-4,65    | 4,55-4,70 | 5.5                |
| Paris            | 8           | 719.714      | 714-714   | 719-714      | 718-714   | 7                  |
| Zunch            | 7g-11g      | 61g-514      |           | 6,5-5,8      | _         | ! -                |
| Ammterdam        | 5 - 5 i     | 55a 534      | _         | 512-55a      | _         | I —                |
| Tokyo            | 4.65625     | 4.65625      | ' —       | 4,71075      |           | ı –                |
| Milan            | 12%   1216  | 1134 114     | . –       | 1112-1174    |           | i                  |
| 874 <b>850 3</b> | 6,50 ;      | 7. 7.7       | -         | 714-709      |           | I —                |
| Dublin           | 9 ig 9 ig   | 94.97        | 934-10    | 1016-1046    | 101g-104s | -                  |

defence committee on the West-land affair.

But the general view was the authorities did not with see higher interest rates, more than lower rates. was underlined by the term a bill repurchase agree offered to the market on T. day, which were regarded broadly neutral.

**NEW YORK RATES** 

5.42 5.97 8.15 6.29 6.64 6.82 8.99 7.07 7.22 7.31 7.39

(4 pm)
Prime rate .....
Broker loan rate ....
Fed funds .....
No Fed intervention

Treasury Bills & Bonds

BANK OF ENGLAND TREASURY BILL TENDER

| · July        | 25   July 18        | 101y 25   | July 18 |
|---------------|---------------------|---|---------|
| illa on offer | 3m £194m<br>m £100m | Top Accepted rate of discount. 9.6662% Average rate of discount Average yield | 1       |
|               |                     |   |         |

FT LONDON INTERBANK FIXING Six months US dollers

| Six months US dollers                  |   |  |  |
|--|---|--|--|
| bid 6 Ig                               | Offer 6 5g  |  |  |
| reference banks at 1                   | 11 am sech working  |  |  |
| ster Sank, Bank o<br>Bank, Bangus Natk | d Tokyo, Deutsche<br>posie de Paris and   |  |  |
| ;                                      |   |  |  |
|  | bid 6 is<br>reference banks et<br>day. The benks are<br>sur Benk, Bank c<br>Benk, Bengue Nation |  |  |

One Year July 25 97s-10 9H-9Hs 9E-9H-97s 9H-10 9H-10 101s 101s 9H-10 9 93<sub>4</sub>-105<sub>4</sub> 97<sub>8</sub>-101<sub>6</sub> 97<sub>8</sub>-10 91<sub>7</sub>-93<sub>7</sub> 91<sub>4</sub>-97<sub>8</sub> 93<sub>4</sub>-97<sub>8</sub> 93<sub>7</sub>-10 93<sub>4</sub>-97<sub>8</sub> 93<sub>8</sub>-10 93<sub>4</sub>-101<sub>8</sub> 93<sub>8</sub>-10 93<sub>4</sub>-101<sub>8</sub> 93<sub>8</sub>-107<sub>8</sub> 

#1-10 rs | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | Sir | S Treasury Sills (sell): one month 95% per cent; three months 95% per cent. Bank Bills (sell): one month 95% per cent, three months 95% per cent. Treasury Bills: Average tender rate at discount 9.5315 per cent. ECGD Fixed Finance Scheme IV reference data June 4 to July 1 (Inclusive): 8.824 per cent. Local Scheme IV reference Houses seven days notice, others seven days fixed. Authority and Finance Houses seven days notice, others seven days fixed. Finance Houses 8ase Rate 10 per cent from July 1 1986. Bank Deposit Rates for sums at seven days incide 4.354-375 per cent. Certificates of Tax Deposit (Series 6): Deposit £100.000 and over held under one month 10 per cent: one-three months 10 per cent; three-six months 10 per cent is nine-12 months 10 per cent. Under £100.000 10 per cent irom July 16. Deposits held under Series 5 10 per cent. Deposits withdrawn for cash 5½ per cent.

Cause-Last

28 Sopt Dec Mar June Sopt Dec

8.50 9.04 — — 0.02 0.48

6.54 7.31 — — 0.06 1.11

5.02 6.04 — — 0.18 1.48

3.27 4.52 — — 0.43 2.32

2.08 3.47 — — 1.24 3.27

1.12 2.53 — — 2.26 4.37

1.12 2.53 — — 2.26 4.37

0.38 2.06 — 3.54 E.50

0.17 1.33 — 5.33 7.13

neted volume total, Calla 1,488, Puts 576

DON SE £/\$ OPTIONS 
 Strike
 Calis—Lest
 Pute—Liprice

 price
 Sept
 Dec
 Blar June
 Sept
 Dec
 M

 116
 4.25
 5.22
 —
 0.11
 1.24

 118
 2.48
 4.99
 —
 0.34
 2.05

 120
 1.31
 3.00
 —
 1.73
 3.00

 124
 0.46
 1.32
 —
 4.02
 5.28

 126
 0.05
 1.00
 —
 5.55
 6.60

 128
 0.01
 0.41
 —
 7.51
 8.37

 130
 0.00
 0.25
 —
 9.50
 10.21

 Estimated volume total, Calls 457, Puts 262

 Previous day's open int, Calls 11,512, Puts 4,379
 quarter growth.

Two leading US officials commented on the dollar; the trade Strike price 1.35 1.40 1.45 1.50 1.55 1.65 Aug Sept Oct Dec Aug Se Last
Oct Doc
- 1.50
- 2.70
2.65 4.25
5.25 6.85
8.55 10.10
- 18.25
- 18.00 Aug Sept Oct Dec — 18.62 — 18.62 — 18.62 — 18.62 13.62 13.62 13.62 13.62 13.62 13.62 13.63 mented on the coller; the trade figures; and among other things interest rates last week, but the net effect seemed to be confusion, rather than clarification.

Mr Paul Volcker, chairman of the Federal Reserve Board, in a speech to Congress, warned about the dangers of placing too much weight on depressing the dolar. Mr Malcoim Baldrige. Estimated volume total, Calls 0, Puts 20 Previous day's open int, Calls 3,843, Puts 4,869 Previous day's Volume, 279 Puta-Last
Sept Dec 94ar
0.00 0.05 0.08
0.00 0.08 0.18
0.01 0.12 0.26
0.03 0.18 0.23
0.09 0.28 0.44
0.19 0.40 0.57
0.36 0.55 0.72
373, Puta 1,395 Strike price \$2.25 \$2.50 \$2.75 \$3.00 \$3.25 \$3.50 \$3.75 Mar June
1.12 --1.32 --73 --7 Calle Last Dec Mar 1.17 1.12 0.96 0.82 0.74 0.73 0.96 0.47 0.40 0.43 0.27 0.31 0.17 0.21 Sept 1.19 0.94 0.70 0.47 0.28 0.13 0.05

US TREASURY BILLS (IMM) \$1m points of 100%

**EXCHANGE CROSS RATES** 

Calls Lest
Sept Dec Mar
18.80 18.80 14.00
8.90 9.50 10.30
8.90 9.50 10.30
8.90 9.50 10.30
8.90 9.50 10.30
8.90 9.50 10.30
8.90 9.50 10.30
8.90 10.30 2.05
8.90 1.30 2.05
8.90 1.30 2.05
8.90 1.30 2.05
8.90 1.30 2.05
8.90 1.30 2.05 Puts-Last
Aug Sept Dec Mer
- 0.05 0.46
- 0.15 1.05 2.05
- 0.50 2.10 3.50
0.60 1.80 3.80 5.50
2.20 3.70 6.30 2.40
1.95 11.50 13.35 14.90
0.718, Puts 31,423
Puts 578 LONDON EE-MONTH EURODOLLAR Sapt 92.44 33.47 33.44 93.47 Dec 93.37 93.40 93.37 93.40 93.37 93.42 93.47 93.47 93.47 93.47 93.47 93.47 93.47 93.47 93.47 93.48 93.25 93.24 93.25 93.47 93. IO-YEAR 12% NOTIONAL GILT 50,000 32nds of 100%

Estimated volume 1,729 (2,487) Previous day's open Int 14,628 (14,285)

157.60 156.30

FT-SE 100 INDEX £25 per full index point

Cioes 156.90 159.75 162.25

High Low Prev 100-60 100-52 100-58 --- - 100-58

| CURRENCY RATES              |                               |   |   |  |  |
|-----------------------------|-------------------------------|---|---|--|--|
| July 25                     | Bank<br>rate<br>2             |   | European<br>Currency<br>Unit                                    |  |  |
| Sterling                    | 7 512 413 912 12 512 8 4 9012 | 1,18868<br>N/A<br>N/A<br>9,60578<br>N/A<br>N/A<br>1748,71(1)<br>186,265<br>8,93293<br>N/A<br>8,41288<br>2,05939 | 156,165<br>7,49091<br>135,836<br>6,99658<br>1,71369<br>136,5896 |  |  |
| * C\$/SDR rate (1) SDR rate |                               |   | 65880.  |  |  |

| 25         | Day's<br>spread | Close                      | One month                               | %<br>p.s. | Three months           | %<br>p.s. |
|------------|-----------------|----------------------------|---|-----------|------------------------|-----------|
|            | <u></u>         |                            |   | •         |                        |           |
|            | 1,4795-1,4915   | 1.4825-1.4935              | 0.43-0.40c pm                           | 3.36      | 1,21-1.16pm            | 3.2       |
| ıdt        | 1.3304-1.3910   | 1.3815-1,3825              | 0.37-0.27c pm                           | 2,77      | 1,20-1,00pm            | 3.1       |
| da         | 1.3857-1.3880   | 1.3865-1.3876              | 0.22-0.25c dla                          | -2.03     | 0.70-0.80dis           | -2.10     |
| nd.        | 2,4100-2,4270   | 2.4145-2.4155              | 0.17-0.15c pm                           |           | 0.60-0.55pm            | 0.9       |
| um         | 44.14-44.45     | 44.30-44.40                | 1-3c dis                                |           | 5-10dis                | -0.6      |
| ark        | 8.04-8.103      | 8.074-8.073                | 1.25-1.75ore dis                        |           | 3,25-3,75dis           | -1.7      |
| er.        | 2.1370-2.1555   | 2.1445-2.1465              | 0.38-0.35pf pm                          |           | 1.05-1.00pm            | 1.9       |
| lag        | 1431-1491       | 1483-1494                  | 90-150c die                             |           | 250-430dis             | -9.1      |
| 9          | 136.60-137.45   | 137.05-137.15              | 60-90c dia                              |           | 180-220dis             | -5.8      |
| •          | 1,467-1,430     | 1.4703-1.4713              |   |           | 17 <sup>2</sup> -19dia | -49       |
| <b>2</b> y | 7.484-7.534     | 7.803-7.513                | 5.00-5,40ore dia                        |           | 15.00-15.60d           | -8.1      |
|            | 6.9175-6.9650   | 6.9365-6.9415              | 0.50-0.55c dia                          |           | 1.25-1.40dis           |           |
| 8          |                 | 7.08-7.08-                 |   |           |                        | -3.0      |
| en         | 7.04%-7.09      |                            | 1.75-2.00ore dis                        |           |                        |           |
| •          | 158.80-158.50   | 167.58-157.65              | 0.27-0.22y pm                           |           | 0.74-0.69pm            | 1.81      |
| ia         | 15.05-15.16     | 15.12-15.12 <sup>1</sup> 2 | 21 <sub>2</sub> -11 <sub>2</sub> gro pm |           | 6-4pm                  | 7.5       |
| L          | 1.7240-1.7380   | 1.7315-1.7325              | 0.22-0.17c pm                           | 7.35      | Q.84-0.53pm            | 1.4       |

| Jo  | v 25 ;  | Short   | j 70   | ays     | . 1.    | Three     | <u> </u> |
|-----|---------|---------|--------|---------|---------|-----------|----------|
| EUF | 10-CL   | JRRE    | NCY    | INTE    | EREST   | RAT       | ES       |
|     | Belgian | rate is | for co | NYOTIDH | imance. | Floancial | ţran     |

# **SYRIAN ARAB REPUBLIC**

Contracts and Tenders

### **PUBLIC ESTABLISHMENT OF** ELECTRICITY

90-30 91-00 90-25 90-ch 90-18 — 90-EE-MONTH EURODOLLAR (IMM)

**CURRENCY FUTURES** 

INNI-STERLING Se per £ (July 24)

High 1.4880 1.4770 1.4680

LIFFE-STERLING £25,000 \$ per £

POUND-S (FOREIGN EXCHANGE)

Prev 93.43 93.34 93.20 92.98 92.72 92.45 92.19 91.94

Prev 1.4850 1.4730 1.4670

Close 93.43 93.37 93.23 93.01 92.76 92.50 92.25 92.00

Closs 1.4860 1.4745 1.4620

Close 1.4795 1.4680 1.4575

\$ | DM | YEN | F Fr. | S Fr. | H Fl. | Lira | C \$ | S Fr.

1,483 5.180 233.8 10.29 2,568 3,580 2182, 2,056 55.75 1. 2,145 157.6 5,939 1,732 2,415 1471, 1,386 44,35

0.514 0.466 1 73.51 3.936 0.807 1.126 686.0 0.646 20.68 4.278 6.344 13.60 1000. 44.02 10.98 15.39 9333, 8.794 281,3

0.279 0.414 0.888 65.99 2.874 0.717 1. 609.4 0.574 18.37 0.468 0.680 1.458 107.8 4.717 1.177 1.641 1000, 0.949 30.14

0,486 0,721 1,547 113,7 5,006 1,249 1,742 1061 1 31,99 1,521 2,266 4,837 355,5 15,65 2,905 5,445 3312 3,126 100

93.79 93.69 93.14

Call for offer No. 1608

Extern call for offfers for The Jandar Thermal Power Station Using Coke as Fuel 2 x 60 MW Units

The Public Establishment of Electricity announces the above mentioned project for the design, supply and erection of equipment and execution of civil works required for the JANDAR thermal power station  $2\times60$  MW  $\pm$  10% units to be delivered ready for operation on a turn key basis.

Sits: Near HOMS about 30 km to the South Fuel: Petroleum coke and/or fuel oil Cooling: Dry cooling system

Connection: with the national network 230 kV by a substation included in this call for offers.

value or the contract.

Execution time: 32 months for the first unit and the substation (first parf), and 36 months for the second unit (accord part).

Penalty of delay: in case of delay is execution, penalties specified in the books of conditions shall be applied, provided that the calling on these penalties, excluding technical penalties, does not exceed 20% of the value of the contract.

Language of the Offer: Offer shall be in the English language. Those interested can obtain the relevant bid documents from the Department of Foreign Contracts in the Public Establishment of Electricity against payment of 5,000 Syrian Pounds between 12-14 hours of the formal working days as from the 14.21986.

Offers shall be submitted to the Public Establishment of Electricity Paiors the end of the working hours of Tuesday 21-10-1988.

Offers will be opened in public. Damascua 17-6-1996, General Director of PEE,

Die Erste österreichische Spar-Casse-Bank First Austrian Bank (Established in Austria with limited Robilly in 1819)

### US\$50,000,000

Subordinated Floating Rate Notes Due January 1992 Notice is hereby given pursuant to the Terms and Conditions of the Notes that for the six months from 29th July, 1986 to 29th January, 1987 the notes will carry an interest rate of 644% per annum. On 29th January, 1987 interest of US\$345.00 will be due per US\$10,000 Nominal against Coupon No.: 6.

Agent Bank ORION ROYAL BANK LIMITED A member of The Royal Bank of Canada Gross



Woodside Financial Services Ltd.

U.S. \$300,000,000 GUARANTEED FLOATING HATE NOTES DUEJULY 1997

Unconditionally Guaranteed by Australian Industry **Development Corporation** 

in accordance with the Terms and Conditions of the Notes, notice is hereby given that for the interest period from July 28, 1986 to October 28, 1986 the Notes will carry an interest rate of 61/1% per annum. The amount payable on October 28, 1986 will be U.S.\$4232.64 and U.S.\$169.31 respectively for Notes in denominations of U.S.\$250,000 and U.S.\$10,000.

The Chase Manhattan Bank, N.A., London, Agent Bank July 28, 1986

CHAS

### WestLB.

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Marketmakers in DeutschmarkBonds WestLB Westdeutsche Landesbank

sche Landerbenk, BA Tower, 36th Floor, 12 Harcourt R. L Telephone 5-8420286 - Telephone 5-8420288

**MITSUI FINANCE** ASIA LIMITED

(Incorporated in the Cayman Islands)

US\$150,000,000 Guaranteed Floating-Rate Notes 1997

In accordance with the provisions of the Notes, notice is hereby given that for the three month period, 28th July, 1986 to but excluding 28th October, 1986 the Notes will carry an Interest Rate of 6% per annum. Coupon will be US\$175.69 on the Notes of US\$10,000.

> Mitsui Finance Trust International Limited **Agent Bank**

Company Notices

### Société Nationale des Chemins de Fer Français

£75.000,000 Guaranteed Floating Rate Notes 1993 (redeemable at the holder's option in 1990)

unconditionally guaranteed, as to payment of principal and interest, by

The Republic of France

In accordance with the provisions of the Notes, notice is hereby given that, for the three months period, 24th July, 1986 to 24th October, 1986, the Notes will bear interest at the rate of 10% per cent, per annum. Coupon No. 12 will therefore be payable at the rate of £129-18 per coupon from 24th October, 1986.

S.G. Warburg & Co. Ltd. Agent Bank

38.000,000 European Composite Units 81% Bonds of 1973 due 1982

81% Bends of 1973 due 1988
In accordance with the terms and conditions of the Bonds, notice is hereby given they have been a proper at per on the interest payment date failing on September 27, 1986 the total principal amount of the above-mentioned Bonds remaining outstanding (i.e. Euro 24,022,000). Payment will be mede upon presentation and aurrender of the Bonds together with all unmartured coupons. Interest will cesse to accrue on these Bonds as from September 27, 1986. Coupons due on September 27, 1986. Coupons due on September 27, 1986, Coupons due to the payment of interest and redemption due on September 27, 1988. demption due on segnember 27, 1988.

Any holder may, however, and following prescribed procedure, select, not less than 15 days prior to the above-mentioned date snother currency of payment smong the possible currencies.

During the twelve-month period commencing September 27, 1985 a has been purchased in the market, principal amount of Europ 798,000 Deted: July 28, 1986

European Investment Bank

IU INTERNATIONAL CAPITAL IU INTERNATIONAL CAPITAL
CORPORATION N.Y.
USSES.000,000 RETRACTABLE
FLOATING RATE NOTES DUE 1982
NOTICE IS HERBY GIVEN that for
the laterest Period commenting 28th
Jary 1986 the Notes will bear interest
te the rate of 74% per sanson. The
interest payable on 25th October
1036 against Council Nn. 8 will be
USSTELOBUS DE USSTELOBUS Note.
Agent Saria. Orion Royal Benk Ltd

BRITISH STEEL CORPORATION US\$50,000,000 64% GUARANTEED BONDS 1989 Holders of the above Bonds are advised that copies of the Annual Report and Accounts of British Steel Corporation for the financial year ended 28th March, 1986 are shown as the Corporation of the March, 1986 are shown as the Corporation of t

Copies of the report and accounts of HII Samuel Finance S.V. and of HII Serveti 1986, are available from the Savigation of HII Serveti 1986, are available from the Savyatry-HIII Samuel Gross page 100 wood Street London EC2P 2AJ.

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